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ABSTRACT

Provided in this document is a bibliography of selected literature addressing the interface between forestry and the social sciences. References include articles and publications from American and foreign sources. A subject-matter classification scheme, in outline format, is provided at the beginning of the document. Entries (numbered 1214-2140) are listed alphabetically by author according to the topics indicated in this scheme. Major topic areas include social science applied to: (1) forestry at large (with consideration of forest resources, economic development and personnel factors); (2) forest management (including ownership options and labor considerations); (3) production of forest goods and services (covering aspects of tourism, wilderness management, fish and wildlife, and wood production); and (4) forest industries (relating to marketing, trade and transportation). Each entry includes citation number, author(s), title, source, year, number of pages and a code related to specific sections in the subject-matter classification scheme. Brief annotations are provided for most entries. An author index is also provided. (ML)

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SOCIAL SCIENCES in FORESTRY

A CURRENT SELECTED BIBLIOGRAPHY AND INDEX

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No. 63 June 1985

SOCIAL SCIENCES IN FORESTRY
A Current Selected Bibliography and Index

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Jean Albrecht is Assistant Professor, Librarian, University of Minnesota Forestry Library.

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PREFACE

We are continuing to index relevant literature published during the period of suspended publication of Social Sciences in Forestry (June, 1983 - March, 1985). We hope to complete the indexing of this backlog of literature with the December, 1985, issue but will note older material in future issues as it comes to our attention.

Due to funding and time constraints, the publication of a subject index will have to be postponed until sometime in 1986. We believe that a subject index would be a useful addition to the bibliography and are committed to producing one when time and funding permit.

Loans or xerox copies of publications indexed are available from the Interlibrary Loan Division, St. Paul Campus Libraries, 1984 Buford Ave., St. Paul, MN 55108.

A project such as this is a cooperative effort. We would like to acknowledge the contributions of Rob Ryks, programmer, Theresa Surprenant, data entry operator, Clara Schreiber, for secretarial assistance, and John Beecher, Co-Acting Director of the St. Paul Campus Libraries, for his encouragement and support.

Please send us notification of any omissions or corrections that come to your attention.

Jean Albrecht
Patricia Rodkewich

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SOCIAL SCIENCES APPLIED TO FORESTRY AT LARGE

FOREST RESOURCES: REGIONAL, NATIONAL, INTERNATIONAL

1214 Bechtold, W.A., 1985. **Forest statistics for North Carolina, 1984.** U.S. For. Serv., Resource Bulletin SE-78. 62pp.

1215 Brown, S., 1982. **An overview of Caribbean forests.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.8-21.

1216 Canadian Forestry Service, Economics Branch, 1985. **Selected forestry statistics Canada 1984.** Information Report E-X-34. 138pp.

This report "contains a series of tables on Canadian forest resources and related management activities, commodity production, shipments and trade," etc. (p.iii) Includes nearly 90 tables of economic data at the national and provincial levels.

1217 Charles, G.L., 1982. **Forestry in Saint Lucia.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.56-61.

1218 Considine, T.J., Jr., 1984. **An analysis of New York's timber resources.** U.S. For. Serv., Resource Bulletin NE-80. 70pp.

"A comprehensive analysis of the current status and trends of the forest resources of New York....Forest management opportunities for increasing the production of major forest resources and enhancing the benefits derived from New York forests are identified."

1219 Dardaine, S., 1982. **Forestry in Trinidad and Tobago.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.22-25.

1220 Davenport, E.L., 1984. **Forest statistics for the northern coastal plain of North Carolina, 1984.** U.S. For. Serv., Resource Bulletin SE-74. 50pp.

This report covers a 23-county area and deals with "the extent and condition of forest lands, associated timber volumes, and rates of timber growth and removals." (p.ii)

1221 Gibert, G., 1984. **La masse forestiere congolaise--son implantation, ses divers facies.** Bois et Forets des Tropiques 204:3-19.

In French. English summary. Title of English summary: "The Congolese forests: Their geographical locations and types."

1222 Gregoire, F., 1982. **Forestry in Dominica.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp. 43-50.

1223 Haddon, B.D., 1984. **Reporting and summarizing forestry change data: Manitoba Pilot Study.** Petawawa National Forestry Institute, Information Report PI-X-36. 26pp.
"Periodic and quantitative information describing forest resource dynamics has been termed 'change data.' Detailed change data is necessary for forest management and for policy decisions and program justification."

1224 Hirvonen, R., 1984. **Forestry report: Norway.** Canadian Forestry Service, Information Report DPC-X-19. 37pp.
"Primarily intended for the Canadian professional forestry community" this report "summarizes forest resource and related information in Norway." (p.iii)

1225 Jones, R.S., 1982. **Forestry in Jamaica.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.62-68.

1226 Lewis, J.W.E., 1982. **Forestry in Grenada.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.26-29.

1227 Lovseth, T., 1982. **Forest resources in Norway.** In: Lag, J., ed. Basis of accounts for Norway's natural resources. Oslo, Universitetsforlaget. pp.79-85.

1228 Lugo, A.E. and Brown, S., eds., 1982. **Forestry in the Caribbean: Proceedings of the First Workshop of Caribbean Foresters, Castries, Saint Lucia, 1982.** U.S. Man and the Biosphere Program, U.S. MAB Report no.7. 137pp.

1229 Mahmud, M.D. bin H., 1982. **Forest resource situation, exploitation and wastage especially in the tropical region.** In: Srivastava, P.B.L. et al., eds. Tropical forests--source of energy through optimisation and diversification. pp.3-12.

1230 Minnesota State Planning Agency, Land Management Info. Center, 1983. **Minnesota public lands, 1983.** In cooperation with Land Bureau, Minnesota Dept. of Natural Resources. 59pp.
An inventory of state-owned and federally-managed lands in Minnesota.

1231 Mok, S.T., 1982. **Forest resource exploitation and wastage in**

Malaysia. In: Srivastava, P.P.L. et al., eds. Tropical forests--source of energy through optimisation and diversification. pp.39-50.

1232 Montaignac, P. de, 1982. **Forestry in Guadeloupe.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.51-55.

1233 Nasser, M.H., 1984. **Forests and forestry in Iraq: Prospects and limitations.** Commonwealth Forestry Review 63:299-304.
Despite their poor quality, the forests of Iraq "can still play a complimentary role in a land-use policy based on a better understanding of their potential...." (p.299)

1234 Nersten, S., 1982. **The world's forest resources.** In: Lag, J., ed. Basis of accounts for Norway's natural resources. Oslo, Universitetsforlaget. pp.45-53.

1235 Nicholls, C.F., 1982. **Forestry in Saint Vincent and the Grenadines.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.30-37.
Saint Vincent and its dependencies, the Grenadines, form part of the islands in the Caribbean basin usually referred to as the Windwards.

1236 Phillips, D.R. and Sheffield, R.M., 1984. **The small timber resource in the southeast.** In: Robertson, D. and White, J. Harvesting the South's small tress. pp.7-17.
Examines the pine and hardwood resource in the southeastern U.S. with emphsis on small timber.

1237 Pillsbury, N. et al., 1983. **California's hardwood resource: Preliminary report of the Hardwood Task Force.** N.P. Mimeo. 67 + 203pp.
Preliminary report of a task force appointed by the California State Board of Forestry.

1238 Poppino, J.H. and Gedney, D.R., 1984. **The hardwood resource in western Oregon.** U.S. For. Serv., Resource Bulletin PNW-116. 37pp.
"The hardwood resource in western Oregon is described by species and ownership." (abstract)

1239 Poupon, J.E., 1982. **Forestry in Martinique.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.38-42.

1240 Powell, D.S. and Dickson, D.R., 1984. **Forest statistics for Maine 1971 and 1982.** U.S. For.Serv., Resource Bulletin NE-81.

"A statistical report on the third forest survey of Maine (1982) and reprocessed data from the second survey (1971)" (abstract) Contains estimates of forest and timberland area, timber products output, etc.

1241 Quebec Ministere de l'Energie et des Ressources, 1984. **Quebec's forests and forest industry: Statistical information, 1984 edition.** Sainte-Foy. 46pp.
Includes sections on "inventory of commercial forests," "the wood industry," "the pulp and paper industry," "the forest sector in Quebec's economy," etc.

1242 Schmidt, R., 1982. **Forestry in Puerto Rico.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.69-71.

1243 Srivastava, P.B.L. et al., eds., 1982. **Tropical forests-source of energy through optimisation and diversification. Proceedings. International Forestry Seminar, Serdang, Selangor, Malaysia, Nov., 1980.** Serdang, Selangor, Malaysia, Penerbit Universiti Pertanian Malaysia. 397pp.

1244 Thomas, C., Birdsey, R. and McWilliams, W., 1984. **The small timber resource in the midsouth.** In: Robertson, D. and White, J. Harvesting the South's small trees. pp.18-28.

1245 Vuokko, R. and Gardiner, J.J., 1984. **Facts and figures from Finnish forestry.** Irish Forestry 41(1):7-13.
Gives statistics on forest ownership, private forestry, etc.

1246 Wharton, E.H., 1984. **Identifying aboveground wood fiber potentials in New York State.** U.S. For. Serv., Resource Bulletin NE-82. 25pp.
"Presents total aboveground biomass supplies, the use of biomass in the state for forest products, and sources of wood from residues and standing trees that can be used to improve wood fiber recovery." (abstract)

1247 Zinn, G.W. and Jones, K.D., 1984. **Forests and the West Virginia economy. Vol.1: Forest land base, forest history and types, forest ownership and inventory.** West Virginia Agr. and For. Exp. Sta., Bulletin 691--vol.1. 26pp.

HISTORY

1248 Buchholtz, C.W., 1983. **Rocky Mountain National Park: A history.** Boulder, Colorado Assoc. Univ. Press. 255pp.
The book's "scope includes the earliest traces of human activity in the region and outlines the major events of exploration, settlement, and exploitation. Origins of the national park idea are followed into the recent decades...." (p.xi)

1249 Craine, M., 1982. **The citadel of cooperation: A history of the Southern Oregon Timber Industries Association.** Stockton, Calif., P & M Cedar Products, Inc. 139pp.

1250 Engel, J.R., 1983. **Sacred sands: The struggle for community in the Indiana Dunes.** Middleton, Connecticut, Wesleyan Univ. Press. 352pp.

1251 Garrison, L.A., 1983. **The making of a ranger: Forty years with the national parks.** Salt Lake City, Howe Brothers; Sun Valley, Institute of the American West. 310pp.

1252 Hausrath, H., 1982. **Geschichte des deutschen Waldbaus von seinen Anfangen bis 1850.** Freiburg, Hochschulverlag. 416pp.
A history of the German forest from its beginning to 1850.

1253 Helles, F., 1984. **Hedeskovbrug og regionalokonomi: Analyse af private plantagers sociockonomiske betydning for en midtjysk hederegion 1866-1929.** Copenhagen. Veterinaer-og landbohojskole. Skovbrugsinstituttet. Meddelelser. Raekke2: Forskning. Series 2: Studies. no.18. 310pp.
In Danish with English summary. Title of English summary: "Heathland forestry and regional development: An analysis of private man-made forests' socioeconomic role in a heath region of mid-Jutland from 1866-1929."

1254 Hergert, H.L., 1983. **The tannin extraction industry in the United States.** Journal of Forest History 27:92-93.
An historical overview; article reprinted from Encyclopedia of American Forest and Conservation History.

1255 Keresztesi, B., 1984. **The development of Hungarian forestry, 1950-1980.** Unasylva 36(145):34-39.
"After the First World War, Hungary lost 67 percent of its total land area... and 85 percent of its forests... The

systematic development of Hungarian forestry - silviculture, the timber industry and timber marketing - began after the First World War...." (p.35)

1256 Kohlmeyer, F.W., 1983. **Lumber distribution and marketing in the United States.** Journal of Forest History 27:86-91.
This historical overview is reprinted from the Encyclopedia of American Forest and Conservation History.

1257 MacKay, D., 1982. **Empire of wood: The MacMillan Bloedel Story.** Seattle, University of Washington Press. 361pp.

1258 Maxwell, R.S. and Baker, R.D., 1983. **Sawdust Empire: The Texas lumber industry 1830-1940.** College Station, Texas A & M University Press. 228pp.

1259 Merrill, P.H., 1984. **The making of a forester: An autobiographical history.** Montpelier, Vermont, Publ. by Perry H. Merrill. 145pp.
Merrill was head of the Vermont Forest Service from 1929-1966.

1260 Morgan, M., 1982. **The mill on the boot: The story of the St. Paul & Tacoma Lumber Company.** Seattle, University of Washington Press. 286pp.

1261 Ofcansky, T.P., 1984. **Kenya forestry under British Colonial administration, 1895-1963.** Journal of Forest History 28:136-143.

1262 Ogilvie, J.F., 1985. **Sir Walter Scott and forestry.** Scottish Forestry 39:13-22.
Scott wrote in 1827, an essay entitled "On planting Waste Lands," which is still relevant today.

1263 Robbins, W.G., 1984. **Federal forestry cooperation: The Fernow-Pinchot years.** Journal of Forest History 28:164-173.
Discussion of cooperative commitments between the Forest Service and the private sector.

1264 Roche, M.M., 1984. **Forest history in New Zealand: A review and bibliography.** New Zealand Journal of Forestry 29:97-107.

1265 Rudolf, P.O., 1985. **History of the Lake States Forest Experiment Station.** U.S. Forest Service, North Central Forest Experiment Station. 290pp.
The station was established in 1923 and became the North

Central Forest Experiment Station in 1965.

1266 Shimotori, S., 1984. **The developing process of Hokkaido's national forests after World War II and some problems in their managements.** Res. Bull. College Expt. For., Hokkaido Univ. 41:461-482.
In English--Japanese summary.

1267 Stover, S.L., 1985. **Silviculture and grazing in the New Forest: Rival land uses over nine centuries.** Journal of Forest History 29:32-42.

1268 Stroud, R.H., ed., 1985. **National leaders of American conservation.** Sponsored by the Natural Resources Council of America. Washington, D.C., Smithsonian Institution Press. 432pp.
The second edition of "Leaders of American Conservation," edited by Henry Clepper, published in 1971. "This book is a biographical recapitulation of the ongoing conservation movement and the development of professional natural-resource management in the United States." (p.15)

1269 Thode, P.J., 1983. **Northland's forest history and present resources.** New Zealand Journal of Forestry 28:203-224.

1270 Totman, C., 1985. **The origins of Japan's modern forests: The case of Akita.** Honolulu, University of Hawaii Press. Asian Studies at Hawaii no.31. 90pp.

1271 Twight, B.W., 1983. **Organizational values and political power: The Forest Service versus the Olympic National Park.** University Park, Pennsylvania State University Press. 139pp.
Includes "a general overview of the history of the conservation of public forest lands in the United States, both for aesthetic and economic purposes." (p.ix)

1272 Wilson, F.G., 1982. **E.M. Griffith and the early story of Wisconsin forestry (1903-1915).** Wisconsin Department of Natural Resources. 67pp.

LEGISLATION

1273 Baki, U., 1983. **Towards a design of countervailing people's power in forest law and administration: Agendum for democratic law-making.** In: Fernandes, W. and Kulkarni, S., eds. Towards a new forest policy. pp.102-107.

1274 Buttoud, G., 1984. **La legislation francaise sur la foret privee.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:3-11.
In French. English summary. French legislation as applied to private forests.

1275 Flinchum, D.M., Pywell, N.A., Munson, K.R., and Doolittle, Q.B., eds., 1984. **The regulated forest: Do you know the rules? Proceedings SAF-SFRC Annual spring symposium.** University of Florida School of Forest Resources and Conservation. Resources Report no.11. 61pp.

1276 Holmes, W.H., 1983. **Forestry by coercion: An experiment that failed.** Forbestown, CA, Holmes and Co. 139pp.
A critique of the California Forest Practice Act and relevant regulations.

1277 Kannan, K.P., 1983. **Forestry legislation in India: Its evolution in the light of the Forest Bill, 1980.** In: Fernandes, W. and Kulkarni, S., eds. Towards a new forest policy. pp.73-83.

1278 Kulkarni, S., 1983. **The Forest Policy and the Forest Bill: A critique and suggestions for change.** In: Fernandes, W. and Kulkarni, S., eds. Towards a new forest policy. pp.84-101.

1279 Niesslein, E., 1984. **Forest dieback and legislation.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:105-111.

1280 Owusu, J.G.K., 1984. **The congruence between statutory forest legislation and indigenous forest policies and laws.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:113-127.

1281 Shannon, R.E., 1983. **Selected federal public wildlands management law.** Missoula, Montana Forest and Conservation Experiment Station. 2 vols. 818pp.

"Congressional enactments--stating national policy, prescribing standards for management, setting forth procedural requirements--constitute the main body of Wildlands Management Law." (p.xiii) Also includes "selected judicial decisions, executive orders, and administrative regulations."

1282 Shannon, R.E., 1985. **The Taylor Grazing Act: A 50-year perspective.** Western Wildlands 11(1):2-7.

1283 Siegel, W.C. and Cubbage, F.W., 1984. **Environmental protection law and forest management regulation on private lands in the United States.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:129-145.

The authors first trace the historical development of forest and environmental law and then "present an overview of important environmental and land-use legislation affecting forest management practices in the United States today." (p.129)

1284 Thompson, A., 1985. **Common law, statues and conservation values: Do they have anything in common?** Forestry Chronicle 61:131-134.

"Canadian common law and statutes are examined to determine what support they provide for 'wise-use' conservation or a 'preservationist' approach to resource management." (p.131)

1285 Webb, R., 1984. **The conservation of trees and woods in Ireland.** Arboricultural Journal 8:235-244.

"Legislation regarding the felling and protection of trees and woods in Ireland is outlined, together with an overview of state and private forestry." (p.235)

POLICY

1286 Amir, S., 1984. **Israel forestation policy: From development tool to recreation resource.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:363-374.

1287 Armson, K.A., 1985. **The mandate: Policies and planning.** Forestry Chronicle 61:128-130.
A discussion of the development of policies relating to forests and wildlife in Canada.

1288 Campbell, R. and Pearse, P.H., 1984. **Policy instruments for reconciling competing demands on public forest land.** In: Papastavrou, A.C. Policy analysis for forestry development 2:13-20.
Demands on forest sites differ. "The policy framework for public forest land management should be designed to recognize these differences and to permit land use patterns to shift with changing conditions." (p.20)

1289 D'Abreo, D., 1982. **People and forests: The Forest Bill and a new forest policy.** New Dehli, Indian Social Institute. 49pp.
"This book is meant to be a contribution to a national debate on a new development policy in general and a forest policy in particular."

1290 Damnjanovic, S., 1984. **Self-managing aspects of Yugoslav forest policy.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:211-220.
Concerns the "socialization of forest policy." (p.212)

1291 Efthymiou, R.N., 1984. **Who should utilize the state forests of Greece?** In: Papastavrou, A.C. Policy analysis for forestry development. 1:223-246.

1292 Ellefson, P.V., 1984. **Forest practice laws as a regulatory force: Organizational and administrative experiences in the United States.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:21-37.

1293 Ellefson, P.V., 1984. **Policy analysis and policy analysts.** In: Papastavrou, A.C. et al. Policy analysis for forestry development. 1:37-46.

1294 Fennell, R., 1983. **Whatever happened to forestry policy in the European Community?** University College of Wales, Aberystwyth. Journal of the Agricultural Society 63:191-212, 1982/83.

1295 Gadgil, M., Prasad, S.N. and Ali, R., 1983. **Forest management and forest policy in India: A critical review.** Social Action 33:127-155.
"A study of the merits and demerits of the Bastar Pine Plantation project." (p.127)

1296 Glascock, H.R., Jr., 1984. **Policy changes--for what public?** Renewable Resources Journal 2(4):18-19.
This article was taken from an address before the Renewable Natural Resources Foundation Winter Forum on Implications of Change in Renewable Resources Policy, Washington, D.C., Dec. 20, 1983.

1297 Gorte, J.K., 1985. **Reporting to Congress on forest policy: An unfinished agenda.** Renewable Resources Journal 3(1):18-21.
A review of the 1983 report by the Office of Technology Assessment entitled "Wood Use: U.S. Competitiveness and Technology." "One area of emphsis in the assessment was an inquiry into the degree to which Forest Service projections of timber demand and supply consider the role of technology." The report also addressed "the international competitiveness of the forest products industry." (pp.20-21)

1298 Grove, R., 1983. **The future of forestry: The urgent need for a new policy.** Cambridge, British Assoc. of Nature Conservationists. 69pp.
The report suggests "that a thorough reform of forestry policy could safeguard minimal conservation and amenity needs whilst at the same time reducing public spending on the more unremunerative forestry schemes in both upland and lowland Britain." (foreword)

1299 Holmes, G.D., 1985. **National forestry policies and the wise managment of forest resources.** Forestry 58:1-8.
This paper is an edited version of paper read to the 4th Congress of the International Union of Societies of Foresters, Quebec, Aug., 1984.

1300 Holmes, G.D. 1984. **National forestry policies and the wise management of forest resources.** Forestry Chronicle 60:294-297.

1301 Iida, S., 1984. **Reform plan for the National Forest of Japan.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:375-383.

The National Forest refers to the 7.6 million ha of forest lands which are managed by the Foresty Agency.

1302 Irland, L.C., 1985. **The regulation trend in New England: States' role is the one to watch.** Northern Logger and Timber Processor 33(7):10-11, 25.
Public regulation of forest practices.

1303 Kaiser, H. F. and Norbury, F.L., 1984. **Multiple use of forest resources from the policy perspective.** In: Papastavrou, A.C., Policy analysis for forestry development. 1:61-73.
"This paper examines how management for timber and nontimber resource values can influence the policy formulation." (p.61)

1304 Kaiser, H.F. and Norbury, F.L., 1984. **Multiple use of forest resources from the policy perspective.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.1-14.

1305 Kishine, T., 1984. **Theoretical and policy simulation model of economy-welfare mixed system of forestry.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:285-310.
The E.W.M.S. Model "consists of the circular flow of economy and welfare system of forestry." (p.285)

1306 Kokkinidis, G., 1984. **The objectives of the forest policy in Greece.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:51-57.

1307 Krott, M., 1985. **Wie funktionieren die Waldfunktionen?** Forstarchiv 56:41-43.
In German, English summary. Title of Eng. summ.: "On the transformation of the theory of forest functions into forest policies."

1308 Krott, M., 1985. **Zu den Waldfunktionen als Instrument der forstpolitischen Wissenschaft und Praxis.** Centralblatt fur das Gesamte Forstwesen 102:1-28.
In German, English summary. Summary title: "On the varying concepts of forest functions in forest theory and praxis."

1309 Lunnan, A., 1984. **Interaction between research and politics--a case study of the first phase of the Norwegian acid rain project.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:217-222.

1310 Lunnan, A., 1984. **Outline of a model for studying development of forest policy in Norway.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:247-254.

1311 Merrifield, D.B., 1984. **Private sector renewable resource policy in the 1980's.** Renewable Resources Journal 2(4):16-17.
This article was taken from an address before the Renewable Natural Resources Foundation Winter Forum on Implications of Change in Renewable Natural Resources Policy, Washington, D.C., Dec. 20, 1983.

1312 Moon, G.C., 1985. **Forestry and the political process.** Western Wildlands 10(4):27-29.
"Today there is no way a professional land manager can obtain what is needed for quality resource management without help from the political process." (p.27)

1313 Mulugeta, A., 1984. **The impact of the "Forest and Wildlife Conservation and Development Proclamation no.192 of 1980." on forest development in Ethiopia.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:63-93.
Includes the text of the Proclamation.

1314 Natividad, W.R., 1984. **Land-use control instruments: Their role in forest conservation.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:95-103.
Land use control instruments can be legislative or administrative.

1315 Papastavrou, A.C. et al., 1984. **Policy analysis for forestry development. Proceedings of the International Conference, Thessaloniki, 1984.** Thessaloniki, International Union of Forestry Research Organizations, Division 4. 2 vols.,520, 556pp.
Proceedings available from Forest Research Institute of Thessaloniki. A.C. Papastavrou was chairman of the organizing committee of the conference.

1316 Richards, B.N., 1983. **Forest policy directions in the twenty-first century.** Australian Forestry 46:270-277.

1317 Riihinen, P., 1984. **Research on the effectiveness of public forest policies.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:23-35.

1318 Swift, H., 1983. **Cut and run: The assault on Canada's forests.** Toronto, Between the Lines. 283pp.
The author "explores both the ways the forest has been handled and, more importantly, why there has developed an

institutionalized lack of concern for all the benefits it has to offer." (p.10)

1319 Walker, J.C.F., 1984. **New forests: New but predetermined opportunities.** Commonwealth Forestry Review 63:255-262.
"There is as much opportunity to manipulate end use requirements to suit the resource as in manipulating the forest to meet such requirements." (p.262)

1320 Webster, H.H., 1984. **Significance and implications of changes in renewable resources policy.** Renewable Resources Journal 2(4):12-15.
This article was taken from an address before the Renewable Natural Resources Foundation Winter Forum on Implications of Change in Renewable Resources Policy, Washington, D.C., Dec. 20, 1983.

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1321 Beasley, L., 1984. **Resources Planning Act--the Forest Service planning umbrella.** In: Land use planning techniques and policies. SSSA Special Publication no.12. pp.89-95.

1322 Blomstrum, G., 1985. **Forest planning on Indian lands.** Forest Planning 6(2):16-19.
"The Bureau of Indian Affairs lacks sufficient funding for forest management on reservations and has no detailed guidelines to follow in drafting forest plans." (p.16)

1323 Cascade Holistic Economic Consultants, 1985. **The citizens guide to forest planning.** Forest Planning, April, 1985. 38pp. Revised edition.

1324 Connaughton, K.P. and Fight, R.D., 1984. **Applying trade-off analysis to national forest planning.** Journal of Forestry 82:680-683.
The trade-off concept--"how much of one output must be given up to increase another?" The authors' purpose "is to show how the economic principles of multiple-use management...can be applied when computing trade-offs for national forest planning...." (p.680)

1325 Cooney, T.M., 1985. **Projecting the future forest.** Journal of Forestry 83:269, 309-310.
A review of microcomputer software that can be used in forest management planning.

1326 Cortner, H.J. and Schweitzer, D.L., 1983. **Institutional limits and legal implications of quantitative models in forest planning.** Environmental Law 13:493-516.
"Planning for public forest resources...is inherently political." The authors "examine how such political-institutional influences may affect the development and use of quantitative models employed in forest land mangement planning and in subsequent litigation challenging planning results." (p.494)

1327 Cortner, H.J. and Richards, M.T., 1983. **The political component of national forest planning.** Journal of Soil and Water Conservation 38(2):79-81.

1328 Dress, P.E., 1982. **Quantitative methods for national forest land management planning.** U.S. Forest Service, Southern

Region. 266pp.

Chapters include: "Systems analysis and the national forest land management planning process," "Solution and interpretation of linear programming problems," "Linear goal programming and multiple criterion optimization," and "General forest regulation models for land management planning."

1329 Dunning, G., 1985. **National parks and forests: The administration of the National Park Service, 1977-1984.** Monticello, Illinois, Vance Bibliographies. Public Administration Series: Bibliography P-1695. 30pp.

"This bibliography is designed to be a literature guide for the planner or researcher who is interested in American parks and forests." (p.2)

1330 Fletcher, K., Williams, C., and O'Toole, R., 1985. **Forest planning bibliography.** Eugene, Oregon, Cascade Holistic Economic Consultants. CHEC Research Paper no. 15. 26pp.

"This bibliography lists some 300 memos, legal documents, research papers, reviews, and other publications relating to national forest planning and management."

1331 Gane, M., 1984. **Microcomputer models for forestry sector planning.** In: Papastavrou, A.C. Policy analysis for forestry development 2:435-446.

Describes a "simulation model for planning the development of forestry, logging and processing for timber production....This model is based on systems dynamics principles and has been developed for use on a microcomputer with programs written in BASIC." (p.435)

1332 Gaspersic, F. and Winkler, I., 1984. **Prispevek k metodologiji dolgorocnega planiranja v gozdarstvu.** Zbornik gozdarstva in lesarstva, Ljubljana 24:103-122.

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1333 Greig, P.J., 1984. **Contributions of economics to forestry planning.** Australian Forestry 47:16-27.

A review of Australian economics publications relating to forestry planning issues. These include: regional land use, forest growing, harvesting and marketing, forest recreation, environment protection and agroforestry.

1334 Haught, A.L., 1984. **Economic analysis for national level planning in the United States.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.133-145.

Discussion of some aspects of national level planning for long range forest policy along with a description of a

resource planning framework that is integrated at all levels in the U.S. Forest Service. (p.144)

1335 Haught, A.L., 1984. **Economic analysis for national level planning in the United States.** In: Papastavrou, A.C. Policy analysis for forestry development 2:231-242.
Discusses some of the complex aspects of national level planning for long-range forest policy in the U.S.

1336 Hyman, E.L., 1984. **Land-use planning to help sustain tropical forest resources.** World Development 12:837-847.
The author maintains that although suitable planning techniques are available, for a number of reasons, they have not been used to their full potential in tropical countries. Six of these reasons are discussed.

1337 Iverson, D.C., 1982. **The genesis of FORPLAN: An historical sketch of U.S. Forest Service resource management decision analysis.** Mimeo. 27pp.

1338 Jones, J.G. and Schuster, E.G., 1985. **An application of discrete optimization for developing economically efficient multiple-use projects.** U.S. For. Serv., Gen. Tech. Rep. INT-178. 16pp.
A model is presented which the authors believe may be useful in planning multiple-use projects.

1339 Jones, M., 1983. **Northland's future land use.** New Zealand Journal of Forestry 28:236-245.

1340 McDermott, P., 1983. **Forestry planning, transport and regional infrastructure in Northland.** New Zealand Journal of Forestry 28:225-235.
"This paper is not about regulatory planning but about the application of a strategic approach to public sector planning." (p.225)

1341 McLean, D.W., 1984. **Planning for forest resource management: Some thoughts on method.** New Zealand Journal of Forestry 28:339-355.
"It is the intention of this paper to argue a case for careful reappraisal of current developments and directions in the methodology of long-range planning for forest management." (p.339)

1342 O'Toole, R., 1984. **Monitoring and implementing forest plans.** Forest Planning 5(9):8-10, 19-20.
"Forest plans must include monitoring programs to insure they are properly implemented." (p.8)

1343 O'Toole, R., 1983. **The citizens' guide to FORPLAN.** Eugene, Oregon, Cascade Holistic Economic Consultants. 50pp.
"Each forest planning team uses FORPLAN to make a 'model' of its forest" "This handbook is designed to help people read and interpret the two main FORPLAN data printouts...." (p.1)

1344 O'Toole, R., 1985. **What's so good about nondeclining even flow anyway?** Forest Planning 6(3):16-20.

1345 Oregon State Forestry Dept. Forest Resource Planning Section, 1983. **Oregon's State Forest Resource Plan: The relationship between the forestry program for Oregon and the U.S.F.S. 1985 RPA program.** Oregon State Forestry Dept. 136pp.
This document is a "step towards implementing a Forest Resource Program for Oregon (FRPO). The FRPO is intended to provide an integrated comprehensive management plan for Oregon's forest resources." (Preface)

1346 Schmid-Haas, P., Keller, W. and Gadola, C., 1984. **Integrale Planung im Forstbetrieb.** Eidgenossische Anstalt fur das forstliche Versuchswesen, Berichte. nr.266. 116pp.
In German. English summary. Title of Summary: "Integral planning in forest enterprises." "A method is presented for integral medium- and long-term planning in forest enterprises, based on inventories with sample plots and silvicultural planning." (p.4) "The method...is integral in that it permits all the various aims of forest management to be taken into account in planning." (p.86)

1347 Schweitzer, D.L. and Cortner, H.J., 1984. **Evolution of planning requirements for national public forestry in the United States.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. p.112-122.

1348 Schweitzer, D.L., 1984. **Analysis to support planning for the national forests in the United States.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.123-132.
"The purpose of this paper is to introduce the central analytical process and model used to support national forest planning." (p.123)

1349 Schweitzer, D.L., Cortner, H.J. and Vann, B.H., 1984. **Is planning worth it?** Journal of Forestry 82:404-407.
"There is no completely objective means of weighing the benefits against the costs of RPA/NFMA planning. An appraisal of RPA and NFMA must be more political than objective." (p.404)

1350 U.S. Forest Service, 1983. **A progress report on the 1985 RPA update.** U.S. Forest Service, FS-384. 25pp.

1351 U.S. Forest Service, 1984. **America's renewable resources: A supplement to the 1979 Assessment of the Forest and Range Land Situation in the United States.** U.S. Forest Service FS-386. 84pp.

"This supplement and the 1979 Assessment provide the factual and analytical basis for a recommended Forest Service program to be submitted to Congress in 1985...." (p.iv)

1352 U.S. Forest Service, Pacific Northwest Region, 1984. **Regional guide for the Pacific Northwest Region covering Forest Service programs that affect the states of Oregon, Washington, and portions of California, and Idaho.** Portland, Oregon. U.S. Forest Service, PNW Region. Various pagings.

"The primary purpose of this Regional Guide is to provide national and Regional direction to the 19 National Forests within the Pacific Northwest Region for land and resource management planning efforts." (p.1-1)

1353 Westerling, S., 1984. **Forestry planning using new technology and new methods.** Talk given at NOAS, 8-9 December, 1983; revised, 1984. Stockholm Forskningsstiftelsen Skogsarbeten. 13pp.

Describes a coordinated planning system which "includes routines for both long and short-term planning of logging and silviculture. Most of the routines are computerized but the system also incorporates manual routines." (p.1)

1354 Yusuf, H. and Kamis, A., 1982. **Desirable features for timber management planning systems in tropical countries.** In: Srivastava, P.B.L. et al., eds. Tropical forests--source of energy through optimisation and diversification. pp.171-178.

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1355 Burns, G.A., 1984. **Timber and timberland appraisal.** The Consultant 29(4):85-86.
Reprinted from the Valuation Journal. 29(1)1983.

1356 Clatanoff, R.M., 1983. **Valuation and property taxation of forests, orchards and trees: A bibliography.** Chicago, International Assoc. of Assessing Officers, Bibliograhic Series. 77pp.
"This bibliography contains works that deal with the appraisal, assessment, and property taxation of trees." Includes sections on appraisal and taxation and assessment of timber and timberlands, citrus groves, orchards, and vineyards, shade and ornamental trees.

1357 Craig, G.A., 1984. **Are changes needed in Forest Service timber appraisals?** Journal of Forestry 82:408-412.

1358 Fedkiw, J., 1984. **A case for commensurate pricing for all resource outputs of national forests and other forest lands.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.84-95.
"Pricing unpriced and underpriced outputs commensurate with prices for marketed outputs offers about the only generally accepted and widely used approach for allocating forest resources equitably to different uses consistent with actual demands and for optimizing individual and multiple uses on forest management units." (p.90)

1359 Fedkiw, J., 1984. **A case for commensurate pricing for all resource outputs of national forests and other forest lands.** In: Papastavrou, A.C. Policy analysis for forestry development 2:243-253.

1360 Hickman, C.A. and Gayer, P.D., 1983. **Use valuation of Louisiana's rural lands: Short-run fiscal impacts.** U.S. For. Serv., Res. Pap. SO-197. 42pp.
"The short-run fiscal impacts of switching from market to use assessment for agricultural, horticultural, marsh, and timber lands is explored...." (Abstract)

1361 Kellert, S.R., 1984. **Assessing wildlife and environmental values in cost-benefit analysis.** Journal of Environmental Management 18:355-363.

1362 Kellow, A.J., 1984. **Management of non-wood values in state forests: Should the user pay? 2. Politics, economics and non-market items.** Australian Forestry 47:148-153.

"This paper briefly surveys the main techniques for valuing non-market items which have been developed by economists and compares these with political methods. It argues that...economic techniques are far more accurate than the valuation of non-market items via the political process...." (p.148)

1363 Papanek, F., 1984. **Use of economic values of forest functions in decision making.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.15-20.

1364 Papanek, F., 1984. **Use of economic values of forest functions in decision-making.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:263-269.

"Non-wood benefits are difficult to evaluate because they are based on social, rather than market values...Therefore, multiple-use forestry cannot be based on exact values, but only on ranges of values." (p.263)

1365 Reid, R.G., 1985. **Agency, industry seek fair timber appraisals.** Forest Industries 112(1):38-39.

The author is exec. vice president of the Inland Forest Resource Council, Missoula, Mont. He states that the "Forest Service should stick with residual value method of appraising timber for sale in the west...." (p.38)

1366 Sorg, C.F. and Loomis, J.B., 1984. **Empirical estimates of amenity forest values: A comparative review.** U.S. For. Serv., Gen. Tech. Rep. RM-107. 23pp.

"This report is designed to help land and natural resource management planners interpret wildlife, wilderness, and general recreation values derived using economic methodologies." (p.1)

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1367 Aitchison, B., 1985. **Investment in forestry: A new look at a traditional shelter.** Scottish Forestry 39:86-88.

1368 Banzhaf, W.H. and Radcliffe, S.J., 1985. **How tax reform plan will affect timber investments.** Forest Industries 112(6):48-49.
Discussion of the tax reform plan presented by the U.S. Treasury to President Reagan, fall, 1984, as it affects forest management.

1369 Bullard, S.H., 1985. **Financial maturity of timber and maximum net present values.** Resource Management and Optimization 3:219-225.
"In this article, financial maturity guides are derived...by maximizing the present value of all future net income." (p.219)

1370 Condrell, W.K. and Neidich, G., 1984. **What constitutes a capital asset: The definition revisited.** Timber Tax Journal 20:3-10.

1371 Cooney, T.M., 1985. **Programs for analyzing forest management investment strategies.** Journal of Forestry 83:138-139, 174-175.
Review of computer programs INVEST, QUICK-SILVER, & YIELD.

1372 Djarwo, A.E., Straka, T.J., and Watson, W.F., 1985. **Investment in Indonesian timber industries.** Resource Management and Optimization 3:227-239.

1373 Englehard, R.J. and Anderson, W.C., 1983. **A method of assessing risk in forestry investments.** U.S. For. Serv., Res. Pap. SO-189. 13pp.

1374 Fight, R.D., Chittester, J.M., and Clenenden, G.W., 1984. **DFSIM WITH ECONOMICS: A financial analysis option for the DFSIM Douglas-fir simulator.** U.S. For. Serv., Gen. Tech. Rep. PNW-175. 22pp.

1375 Fisunoglu, H.M., 1984. **Dynamics, land use and forestry.** In: Papastavrou, A.C. Policy analysis for forestry development.

1:413-419.
"This paper presents a model that combines Thunen's theory of rent and land use with Samuelson's capital theory." (p.418) The author attempts to show how time and transportation costs interact to determine rents, land use, and production of timber. (p.413)

1376 Foster, B.B. and Brooks, G.N., 1984. **IRAs and timber investments compared.** Forest Farmer 44(1):10-11.

1377 Foster, B.B., 1984. **A service foresters' guide to investment terminologies--which ones are most easily understood by landowners?** Southern Journal of Applied Forestry 8:115-119.
A discussion of terms frequently used in economic analysis.

1378 Futch, S., 1984. **South's timberland remains a good buy.** Forest Farmer 44(2):12-14.
"Look for more institutional ownership and greater emphasis on consolidation of land resources near major mills in the South." (p.12)

1379 Godman, R.M., 1985. **Lumber value and rate of return for sugar maple.** U.S. For. Serv., North Central For. Exp. Sta., Northern Hardwood Notes 6.02. 3pp.

1380 Gray, J.W., 1983. **Forest revenue systems in developing countries; their role in income generation and forest management strategies.** Rome, Food and Agriculture Organization of the United Nations. FAO Forestry Paper no.43. 261pp.
The purpose of the study was "to review economic aspects of pricing and method of sale of products from the forests of developing countries." (p.iii) The paper is concerned with forest revenues from the production of industrial roundwood and also with revenues from public forests and forest lands. (p.xviii)

1381 Grider, G.E. and Bailey, R.L., 1984. **A computer simulation model for stand structure, yield, growth, and financial analysis of thinned, site-prepared slash pine plantations.** Georgia Agr. Exp. Sta., Research Bulletin 308. 90pp.

1382 Hamilton, W.L. and Clemens, A.B., 1984. **Accounting for buying back timber cutting contracts.** Oregon State Univ., College of Business, Studies in Management and Accounting for the Forest Products Industries no. 23. (7)pp.
The Federal Timber Contract Payment Modification Act "permits timber companies to turn back to the federal

agencies those expensive pre-1982 timber cutting contracts by payment of a buy-out cost." This bulletin "is intended to provoke thoughtful consideration of the accounting questions involved...." (introduction)

1383 Hampf, F.E. and Pruett, E.W., n. d. **An updated cost-record system for a logging business.** U.S. For. Serv., Northeastern Area State & Priv. For., NA-FR-29. 73pp.

1384 Harou, P.A., Kindahl, J.K. and Egeberg, W., 1984. **A proxy for investment in forest management.** In: Papastavrou, A.C. Policy analysis for forestry development 2:419-434.
Presents a method for finding a "proxy variable" for the amount of dollars invested in the management of non-industrial private forests.

1385 Harou, P.A., 1984. **Efficiency and equity considerations in forest economics.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:199-209.
"In this paper, the equity concept in the appraisal of forestry projects and program evaluations is introduced...." (p.200)

1386 Harpole, G.B., 1985. **Investment limits for small-scale SDR and EGAR sawmills.** U.S. Forest Service, Research Paper FPL-454. 11pp.
"Market prices, roundwood costs, and other operating factors are used to formulate algorithms that may be used for estimating investment limits for small-scale SDR (Saw-Dry-Rip) and EGAR (Edge-Glue-and-Rip) sawmills." (Abstract)

1387 Helfand, G.E., 1983. **Timber economics and other resource values: The Bighorn-Weitas Roadless Area, Idaho.** Washington, D.C., Wilderness Society, Economic Policy Dept. Studies in Natural Resource Policy. 51pp.
The purpose of the study was to determine whether timber development in the Bighorn-Weitas Roadless Area was financially feasible and would recover its costs. If not, timber development need not conflict with other uses of the area.

1388 Herrick, O.W., 1984. **Rate of value change in Pennsylvania timber stands.** U.S. For.Serv., Research Paper NE-547. 5pp.

1389 Hoyle, J.A., 1982. **Risk analysis in capital investments.** 8pp. + app.(1p.) and 1p. bibliography.
Written as a partial requirement for author's M.B.A. degree, Central Michigan University. The author's main objective was to relate risk to capital investments,

"specifically forestry investments." (letter from author)

1390 Humphries, W.C., Jr. and Thompson, R., 1984. **Financial considerations of hardwood control in natural loblolly pine.** Consultant 29:45-46.

1391 Johansson, P.-O. 1984. **Disequilibrium cost-benefit rules for natural resources.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Rapport no. 53. 26pp.
"This paper derives cost-benefit rules to be used when evaluating the efficiency gains from extraction of non-renewable resources." (p.1)

1392 Kaiser, H.F. and Royer, J.P., 1984. **The appropriate role of U.S. government programs in fostering U.S. forest investment.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:51-61.
"Forest policy and planning decisions in the U.S....require reliable information on investment opportunities, responses of landowners to opportunities, and on public programs that may elicit landowner response when markets fail to do so." (p.51)

1393 Kirk, B., 1984. **Timber and timberlands: Some contemporary iconoclastic thoughts.** Tappi Journal 67(1):40-42.
The author works for a Wall Street investment firm. He predicts that "This decade, because of certain changes in demand trends, is not likely to produce premium real timber inflation rates but will resemble certain periods in the past when market forces result in a relatively stable environment." (p.40)

1394 Kluender, R.A., 1983. **Combining harvesting and regeneration operations to maximize total stand investment worth.** Ph.D., Virginia Polytechnic Institute and State Univ. Ann Arbor, University Microfilms Int. 235pp. (xerox printed 1984)
"This research has investigated the relationship between harvesting, site preparation, and present net worth of a forest investment." (p.207)

1395 Kurtz, W.B., Garrett, H.E. and Kincaid, W.H., Jr., 1984. **Investment alternatives for black walnut plantation management.** Journal of Forestry 82:604-608.
"Black walnut plantation management is a financially viable land-use alternative. Management for timber production alone yields a suitable return; the addition of nut production further increases expected gains...However, multicropping brings a greater degree of risk and complexity in management." (p.604)

1396 Lohmander, P., 1984. **Diversification in the natural resource enterprise, option values and improved industrial coordination.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport nr.40. 20pp. + 3pp. references + xiipp.

"The question under investigation is whether there are any motives for diversification in natural resource investments irrespective of whether the investor has risk aversion or not." (p.1)

1397 Lohmander, P., 1984. **On the optimal investment intensity under the influence of price risk and successive decisions.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 29:1-13.

"The problem investigated is the one where the decision concerning the magnitude of the first investment...has to be taken when there is no more than a probability density function of price avaliable." (p. 3)

1398 Lohmander, P., 1984. **On the profitability of diversification without risk aversion.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 32. pp.1-12.

"The problem under investigation is a two stage production problem where investments are made in industrial capacity and a natural resource in the first period and production takes place in the second period." (abstract)

1399 Lohmander, P., 1984. **Product price risk and the investment intensity in a two stage decision process.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 32, pp.1-11.

"The problem under investigation is a two stage decision problem where the decision concerning the magnitude of the first investment has to be taken when there is no more than a probability density function of price available. ...The second decision is taken when the price is known with certainty." (p.3)

1400 Mullins, R.J. and De Braal, J.P., 1984. **Foreign investment in U.S. land: Is it a problem?** American Forests 90(11):10-11, 48-54.

Mullins, Director of Legislative Services, National Farmers Union, says yes; De Braal, attorney, USDA, say no.

1401 Price, C., 1985. **Capital costing for forest machinery: A discounted output solution.** Scottish Forestry 39:77-85.

"Charging depreciation and interest on the capital invested in forest machinery presents methodological and practical problems, and differing results are produced according to the method used. A method which avoids both depreciation and interest headings is offered...." (p.77)

1402 Rezende, J.L.P. de, 1982. **Application of benefit-cost analysis to forestry investment problems.** PhD thesis, University of Toronto. 190pp.

"Evaluation of nontimber products and choice of discount rate are identified as the major impediments in the use of BCA." (p.i)

1403 Swan, H., 1983. **The capital market's view on timberland investments.** Consultant 28:91-95.

"Why do people invest in timberlands?" (p.91)

1404 Tarver, C.M., 1984. **Timber, the investment that keeps on growing.** Forest Farmer 44(2):10-11.

1405 Werblow, D.A. and Cubbage, F.W., 1985. **An analysis of tree planting investments in Georgia under the proposed Conservation and Forestation Act.** Research Triangle Park, N.C., Southeastern Center for Forest Economics Research, SCFER Working Paper no.9. 23pp.

1406 West, P.W. and Inglis, D.J., 1984. **Present value of regrowth eucalypt forest in southern Tasmania.** Australian Forestry 47:259-265.

"In Australia, awareness is increasing of the potential of some eucalypt forests as an alternative to softwood plantations in supplying future timber needs. If eucalypt forests are to be used in this way, it must be shown that the financial investment involved in their management can yield economic benefits to society of the same magnitude as those from softwood plantations." (p.259)

TAXATION

1407 Dennis, D.F., 1985. **Capital gains treatment of timber income: An economic assessment.** U.S. Forest Service, Research Paper NE-556. 5pp.

1408 Franklin, E.C., 1982. **"Present use" valuation of forest land in North Carolina for ad valorem taxation: Current implementation and future needs.** N.C. State Univ., Small Woodlot Forestry R & D Program, Res. Notes Ser. no.4. 7pp.
Valuation based on current use value rather than market value.

1409 Franklin, E.C., 1984. **Making the most of reforestation's tax advantages.** N.C. State Univ. Small Woodlot Forestry R & D Program, Res. Notes Ser. no.32. 8pp.

1410 Friedman, J., 1984. **The taxation of timber: A discussion paper prepared for the Minnesota Tax Study Commission.** Mimeo, 30pp. + appendices.

1411 Gt. Britain Forestry Commission, 1983. **Taxation of woodlands.** Forestry Commission Leaflet no.12. 6th ed. 14pp.

1412 Hickman, C.A., 1982. **Property-tax impacts of current-use assessment of forest and other rural land in Tennessee.** U.S. Forest Service. Research Paper SO-180. 17pp.

1413 Kilgore, M.A. and Ellefson, P.V., 1984. **Minnesota's 1982-83 forest property tax structure: A review and evaluation.** University of Minnesota, College of Forestry, Dept. of Forest Resources, Staff Paper Series no.39. 99pp. + app.

1414 Kronrad, G.D., 1984. **The effects of a special forest tax law on local government revenue: Case studies from Massachusetts.** N.C. State University Small Woodlot Forestry R & D Program, Research Notes Series no.41. 12pp.

1415 Leray Press, 1983. **1982 manual and kit of worksheets on how to take reforestation tax deductions and tax credits.** Midland Park, NJ. 36pp.
Includes supplementary sheets for 1983 and 1984.

1416 Minnesota Legislature, 1984. **Report of the Advisory Task Force on Forest Taxation to the Forestry Taxes Subcommittee of the Joint Select Legislative Committee on Forestry, Aug. 17, 1984.** Mimeo. 11pp.

1417 Puttock, G.D., 1981. **Income taxation and forest management on private lands in Canada.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.23-29.
This paper discusses income taxation applicable to forest property and forest management in Canada.

1418 Siegel, W.C., 1984. **Avoid any gambles with your capital gains eligibility.** Forest Farmer 44(2):14-15.
"Complexities of the law - especially regarding timber sale contracts - can trap the unwary." (p.14).

1419 Siegel, W.C., 1985. **Tax tips for timberland owners.** American Forests 91(2):20-21,53,55-56.

1420 Stier, J.C. and Dederich, P.K., 1984. **Timber sale tax records.** Univ. of Wisconsin, School of Natural Resources, Staff Paper Series no. 17. 7pp. + figures + appendix.
The first of a series of papers "to assist forestland owners in keeping records on their forestry enterprise." (p.i)

1421 Sutherland, C.F., Jr., 1984. **Forest property taxation in eastern Oregon.** Oregon State University Extension Service, Ext. Circ. 1150. 6pp.

1422 Utz, K.A. and Myles, G., 1984. **Tax tips for forest landowners.** Forest Farmer 44(2):18-19.

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1423 Brooks, D.J., 1985. **Public policy and long-term timber supply in the South.** Forest Science 31:342-357.
"This study is intended to provide a better understanding of the long-term impact of public expenditures in support of nonindustrial private reforestation." (p.342)

1424 Fletcher, R., 1983. **Cost sharing and woodland management.** Oregon State Univ., Ext. Serv., Ext Circ. 1119. (3)pp.

1425 Harou, P.A., 1984. **A methodology to evaluate aid programs to nonindustrial private forests.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:257-269.
"A methodology to evaluate forestry programs aimed at increasing timber supply from nonindustrial forests is presented."(p.257)

1426 Harou, P.A., 1985. **Evaluation of forestry programs: A case study of the Forestry Incentives Program in Massachusetts.** Forest Ecology and Management 10:251-267.
"A general methodology is proposed to evaluate forestry programs which are aimed at increasing timber supply from non-industrial private forest lands." (p.251)

1427 Johnson, W.L., 1981. **The G.D.A. incentive program for private landowners in Nova Scotia.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.1-5.
A forestry assistance program for private land.

1428 Kronrad, G.D. and Morzuch, B.J., 1983. **The Forestry Incentives Program and forest yield taxation: Are both necessary?** N.C. State Univ., Small Woodlot Forestry R & D Program, Res. Notes Ser. no.26. 18pp.
The question is asked: Do nonindustrial private forest landowners in Massachusetts need either the FIP or the modified assessment-yield tax property law to profitably manage their forest land?

1429 Sanders, J.F., 1984. **Another view of government forestry assistance: Reflections of a "subsidizer."** American Forests 90(12):40-41, 53-55.
"A sense of stewardship is alive and well within the present incentive programs, says this service forester." (p.40)

1430 Stripling, C.M. and Larson, L.K., 1984. **Forestry incentives**

programs: Pro and con. Forest Farmer 44(1):6-7.

1431 Watkins, C., 1984. The use of grant aid to encourage woodland planting in Great Britain. Quarterly Journal of Forestry 78:213-224.

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1432 Club du Sahel, 1983. **Fuelwood: The main source of energy in the Sahel and fuelwood research needs.** Organisation for Economic Cooperation and Development; Permanent Interstate Committee for Drought Control in the Sahel. 26pp.

Among the suggested themes for fuelwood research are: the socioeconomics of fuelwood, the social acceptance of cookstoves, and economic and policy options to reduce fuelwood consumption.

1433 DePasse, D.B., 1985. **The Peace Corps and the Third World forestry crisis.** American Forests 91(7):22-25, 53-54.

1434 Ffolliott, P.F., and Thames, J.L. 1983. **Environmentally sound small-scale forestry projects: Guidelines for planning.** Arlington, VA, Volunteers in Technical Assistance (VITA). 109pp.

1435 Harou, P.A., 1984. **Efficiency and equity considerations in forest economics.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.74-83.

"In this paper, the equity concept in the appraisal of forestry projects and program evaluations is introduced and several existing methods of quantifying distributional effects outside or inside the efficiency analysis are classified." (p.74)

1436 McGaughey, S.E., 1984. **Forest sector policy issues and investment financing opportunities in Latin America.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:75-87.

1437 Montalembert, M.R. de and Clement, J., 1983. **Fuelwood supplies in the developing countries.** Rome, Food and Agriculture Organization of the United Nations. FAO Forestry Paper no.42. 125pp.

The primary objective of this report is to draw attention to the seriousness of the problem of fuelwood supplies for many rural people of the Third World, and "to prompt a rapid mobilization of efforts and resources with a view to immediate and large-scale action." (p.iv)

1438 Price, C. and Nair, C.T.S., 1984. **Cost-benefit analysis and the consideration of forestry alternatives.** Journal of

World Forest Resource Management 1:81-104.
"Cost-benefit analysis can only assure superior evaluation if alternatives, shadow prices and choice criterion are all correctly defined." (p.81)

1439 Roberts, R.W., 1983. **Forestry development assistance to the Third World--a Canadian perspective.** In: Western Forestry Conf., 1983, Proc. Sum., pp.55-59.
The Canadian private forestry sector has been given incentives "to develop new markets for their goods and services in developing countries." (p.55)

1440 Skogsarbeten, 1983. **Swedish forestry techniques with possible applications in the Third World.** Forskningsstiftelsen Skogsarbeten. 342 pp.
"This technical report... contains an account of the systems, methods and equipment judged to be suitable for use in developing countries." (p.3).

1441 Takeuchi, K., 1982. **Mechanical processing of tropical hardwood in developing countries: Issues and prospects of plywood industry development in the Asia-Pacific region.** World Bank Commodities and Export Projections Division, Division Working Paper no.1982-1. 138pp.

1442 United Nations Industrial Development Organization, 1983. **First world-wide study of the wood and wood processing industries.** Sectoral Studies Series no.2 UNIDO/IS.398. 195 pp.
Includes sections on logging and transport, international trade in wood and wood products, marketing and product promotion. The study focuses on "the conditions that developing countries have to face in order to establish a successful domestic industry." (p.i)

1443 Whyte, A.G.D., 1984. **Development of the Fiji Pine Commission: An account of the emergence of a major new industry in a developing country.** New Zealand Journal of Forestry 28:412-422.
"This paper sketches the evolution of the Fiji Pine Commission, then provides a brief history of New Zealand's involvement in bilateral aid to the Fiji Pine Commission...." (p.412)

SOCIAL AND COMMUNAL FORESTRY

1444 Aguilar, F.V., Jr., 1982. **Social forestry for upland development: Lessons from four case studies.** Quezon City, Ateneo de Manila University, Institute of Philippine Culture. 207pp.

"This study focuses on four social forestry projects.... It looks into the socioeconomic condition of the upland communities concerned and each project's historical background." (p.iii)

1445 Booth, H.E., 1984. **Improvement of wood-energy use.** In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.51-61.

"The critical nature of the fuelwood crisis in many developing countries has drawn attention to efficiency of fuel use as a means of stretching supply." (p.51)

1446 Eckholm, E., Foley, G., Barnard, G., and Timberlake, L., 1984. **Fuelwood: The energy crisis that won't go away.** Washington, D.C., Earthscan; International Institute for Environment and Development. 107pp.

"Data are only now becoming available to explain the peculiar relationships between the woodfuel crisis and deforestation, between woodfuel supply and demand systems. It has also become clearer why many community forestry programmes have failed." (p.5)

1447 Evans, M.I., 1984. **Firewood versus alternatives: Domestic fuel in Mexico.** University of Oxford, C.F.I. Occasional Papers no.23. 66pp. + app.

"This study presents a picture of the relative importance of the domestic fuel crisis in the daily life pattern of different socio-economic groups, in two villages in central Mexico." (p.2)

1448 FAO/ESCAP Regional Workshop, Bangkok, 1983, 1984. **Report: Wood energy development.** Bangkok, United Nations Development Programme and Economic and Social Commission for Asia and the Pacific; Regional Office for Asia and the Pacific (RAPA) of the FAO of the United Nations. Regional Energy Development Programme: RAS/80/001. 116pp.

1449 Farnsworth, M.C., 1983. **The social impact of forest development in Northland.** New Zealand Journal of Forestry 28:246-254.

1450 Fernandes, W. and Kulkarni, S., eds., 1983. **Towards a new forest policy: People's rights and environmental needs.** New Delhi, Indian Social Institute. 155pp.
Papers from a Workshop on a New Forest Policy held at the Indian Social Institute, Apr. 12-14, 1982.

1451 Foley, G. and Barnard, G., 1984. **Farm and community forestry.** London, Earthscan; International Institute for Environment and Development. Energy Information Programme Technical Report no. 3. 236pp.
"A variety of labels have been used to describe the efforts made in recent years to involve rural people in tree growing. In this report, the composite title 'farm and community forestry' is used... the term 'social forestry'... is deliberately avoided." (p.5).

1452 Gadgil, M., 1983. **Forestry with a social purpose.** In: Fernandes, W. and Kulkarni, S., eds. Towards a new forest policy. pp.111-133.

1453 Ghosh, R.C., 1984. **Fuelwood in the region: Current situation and programmes.** In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.11-36.

1454 Islam, M.N., 1984. **Substitution possibilities in relation to fuelwood and charcoal.** In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.80-92.
"Substituting or at least complementing fuelwood and charcoal with other sources of energy is in the long run indispensable, as in most cases forest resources will not be able to sustain the continuing dependence of growing populations on wood energy." (p.80)

1455 Joshi, G., 1983. **Forest policy and tribal development: Problems of implementation, ecology and exploitation.** In: Fernandes, W. and Kulkarni, S., eds. Towards a new forest policy. pp.25-47.

1456 Montalembert, M.R. de and Rao, Y.S., 1984. **Regional cooperative measures for wood energy development.** In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.102-113.
The author states that the question of how to respond to the "massive dependence on wood for fuel needs to be approached both at the national and the regional level." (p.102)

1457 Nanayakkara, V.R., 1984. **Management of existing fuelwood**

resources for wood energy supply. In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.37-42.

The author states that management of fuelwood resources in Asia is synonymous with forest management "because around 85.5% of total roundwood removals from forests in the Region are fuelwood removals for energy supply." (p.37)

1458 Pelinck, E., Manandhar, P.K. and Gecolea, R.H., 1984. **Community development in Nepal.** Philippine Lumberman 30(11):13-15, 17-19, 33-35.

"The present article describes strategies and programmes that...could apply to many developing countries. Most of these examples are based on experience gained in the Government of Nepal's three-year-old Community Forestry Development Project, which is supported by the World Bank, the United Nations Development Programme and FAO." (p.13).

1459 Prabhu, P., 1983. **Social forestry: An Adivasi viewpoint.** In: Fernandes, W. and Kulkarni, S., eds., Towards a new forest policy. pp.134-143.

1460 Rao, Y.S., 1985. **Community forestry: Building success through people's participation.** Unasylva 37(147):29-35

The author "provides a succinct and clear definition of community forestry, outlines what is needed to make it succeed, and discusses the constraints under which it operates at present." (p.29).

1461 Rice, D., 1984. **The Ikalahan experience: A forest-dwelling people's journey on the rugged terrain of development.** Tropical Forests 1(1):18-29.

1462 Ross, M.S. and Donovan, D.G., 1984. **Problems and potentials in promoting charcoal manufacture: A case study from Indonesia.** In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.62-79.

1463 Sheikh, M.I. and Amjad, M., 1984. **Creation of new resources for fuelwood and wood energy.** In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.43-50.

"To meet the expected energy crisis and to assure the rural people (in Asia) of sustained supply of fuel, establishment of fuelwood plantations on a massive scale is vital." (p.43)

1464 Shiva, V., Sharatchandra, H.C., and Bandyopadhyay, J., 1983.

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1465 Singh, A.K., Singh, M.K. and Mascarenhas, O.A.J., 1985. **Community forestry for revitalizing rural ecosystems: A case study.** Forest Ecology and Management 10:209-232.
"A case study focusing on the socioeconomic and ecological aspects of a forest-based village...in India...." (p.209)

1466 Stewart, J., 1984. **Community forestry development in Nepal.** Commonwealth Forestry Review 63:121-127.
Reports on the Nepal Community Forestry Development Project.

1467 Thomson, J.T., 1983. **Participation, local organisation, land and tree tenure: Future directions for Sahelian forestry.** Organization for Economic Coop. and Develop., Permanent Interstate Committee for Drought Control in the Sahel, Club du Sahel. 34pp.

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1468 Baumer, M., 1984. **Integration par l'agroforesterie d l'agriculture, de l'elevage et des forets dans les regions arides et demi-arides.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:489-498.

1469 FAO Forestry Department, 1984. **Changes in shifting cultivation in Africa.** Rome, Food and Agriculture Organization of the United Nations, FAO Forestry Paper no.50. 59pp.

1470 Fernandes, E.C.E., Oktingati, A., and Maghembe, J., 1984. **The Chagga homegardens: a multistoried agroforestry cropping system on Mt. Kilimanjaro (Northern Tanzania).** Agroforestry Systems 2:73-86.

1471 Filius, A.M. and Mutsaers, L.A.M., 1984. **Integration of forestry and agriculture in the Netherlands.** In: Papastavrou, A.C. et al. Policy analysis for forestry development. 1:499-510.

"In the Netherlands forestry and agriculture, once largely integrated, are now largely segregated. In this paper some possibilities of integrating these sectors are investigated." (p.499)

1472 Fortmann, L. and Rocheleau, D., 1985. **Women and agroforestry: Four myths and three case studies.** Agroforestry Systems 2:253-272.

Many agroforestry projects "continue to be designed without consideration of their effect on women or of the role of women in their implementation...This article reviews the literature on women's involvement in agroforestry and presents three case studies on the results of including or excluding women from agrogorestry projects." (p.253)

1473 Fortmann, L., 1985. **The tree tenure factor in agroforestry with particular reference to Africa.** Agroforestry Systems 2:229-251.

1474 Getahun, A. and Ndegwa, C.M., 1983. **Woodfuel in Kenya: Problems and prospects.** In: Hoekstra, D.A., ed. Agroforestry systems for small-scale farmers. pp.123-146.

"The physical potentials and opportunities of fuelwood plantations as cash crops on agricultural lands

exist...possibly leading to more private and government tree-based enterprises." (p.132)

1475 Hoekstra, D.A., 1985. **Choosing the discount rate for analysing agroforestry systems/technologies from a private economic viewpoint.** Forest Ecology and Management 10:177-183.

1476 Hoekstra, D.A., 1983. **Planning fuelwood production on a tobacco farm: Some economic considerations.** In: Hoekstra, D.A., ed. Agroforestry systems for small-scale farmers. pp.112-122.

1477 Hoekstra, D.A., ed., 1983. **Agroforestry systems for small-scale farmers: Proceedings of an ICRAF/BAT Workshop, Nairobi, 1982.** Nairobi, International Council for Research in Agroforestry and B.A.T. Kenya Ltd. 283pp.

1478 Hunter, L.P., Smith, M.D. and Kronrad, G.D., 1984. **Agroforestry: Agriculture and silviculture combined.** N.C. State Univ. Small Woodlot Forestry R & D Program, Res. Note Ser. no.38. 8pp.

1479 Institut de Recherches Agronomiques Tropicales et des Cultures Vivrieres, 1982. **Bibliographie sur l'agroforesterie.** Nogent-sur-Marne. 131 pp. + indexes.

1480 Kapp, G., 1984. **Agroforstwirtschaft in Deutschland: Der waldfeldbau im 18. und 19. Jahrhundert.** Allgemeine Forst und Jagdzeitung 155:266-270.
In German, English summary. Title of Eng. summ.: "A historical form of agroforestry in the Federal Republic of Germany: The Agrisilviculture in the 18th and 19th century."

1481 Kronick, J., 1984. **Temporal analysis of agroforestry systems for rural development.** Agroforestry Systems 2:165-176.

1482 Linnartz, N.E. and Johnson, M.K., eds., 1984. **Agroforestry in the southern United States: (Proceedings) 33rd annual Forestry Symposium.** Louisiana State Univ., Agr. Expt. Station and Coop. Ext. Serv. 183pp.

1483 Pool, D.J., 1982. **Agroforestry in the Caribbean.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.93-109.

1484 Raintree, J.B., 1983. **A methodology for diagnosis and design of agroforestry land management systems.** In: Hoekstra, D.A., ed. Agroforestry systems for small-scale farmers. pp.8-26.
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1485 Robinson, P., 1983. **The role of silvopastoralism in small farming systems.** In: Hoekstra, D.A., ed. Agroforestry systems for small-scale farmers. pp.147-169.
"Silvopastoralism implies a management system in which there is an attempt to integrate the production of woody perennials with livestock husbandry in such a way that more benefits are obtained than by either tree or animal production alone." (p.147)

1486 Satjapradja, O., 1982. **Agroforestry--a promising system for optimizing and diversifying the forest resource.** In: Srivastava, P.B.L. et al., eds. Tropical forests--source of energy through optimisation and diversification. pp.147-150.

1487 Segura de los Angeles, M., 1983. **Economic and social impact analysis of agro-forestry development projects in Villarica, Diadi, and Norzagaray.** Manila, Philippine Institute for Development Studies, Working Paper 83-08. 154pp. + annexes.

1488 Sholto-Douglas, J., Hart, R.A. de J. and Ranganathan, G.S., 1982. **Forest farming: Prosperity for India.** Dehra Dun, Natraj Publishers. 227pp.
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"The results suggested a promising future for the combined production of agriculture and forestry crops under an integrated land management system by small-scale farmers in the humid tropics." (p.129)

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1495 Brion, H.P., 1983. **Current status and future development of the secondary wood-processing industry of developing countries.** Consultation on the Wood and Wood Products Industry, 1st, Helsinki, 1983. United Nations Industrial Development Organization. ID/WG.395/4. 66pp.

1496 Brion, H.P., 1983. **Potentials and requirements of increasing the degree of wood processing in developing countries of Asia and the Pacific.** United Nations Industrial Development Organization, Sectoral Working Paper Series no. 5, UNIDO/IS.395. 73pp.

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1497 Dargavel, J., 1982. **Employment and production: The declining forestry sector re-examined.** Australian Forestry 45:255-261.

1498 Dargavel, J., 1984. **Problems in Australia's mixed forest economy.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:131-138.

"The trends in the Australian forest economy indicate that state deficits will rise, unemployment will increase and controversy will continue over environmental issues." (p.135)

1499 Dobrinsky, R. and Kallio, M., 1984. **Modeling small European socialist countries in a global forest sector model.** Laxenburg, Austria, International Institute for Applied Systems Analysis. Internal draft. 9pp.

"The purpose of this article is to propose some practical steps for the formulation and construction of the submodel of the Small European Socialist Countries (ESC) within the global forest sector model of IIASA...the Global Trade Model (GTM)." (p.1)

1500 Ellefson, P.V., 1984. **Minnesota's forestry sector: Status of resource, economic importance and conditions influencing**

future directions. University of Minnesota, College of Forestry, Dept. of Forest Resources, Staff Paper Series no.45. 20pp.

1501 Grossmann, W.-D. and Lonnstedt, L., 1984. **A dialogue approach for forest sector modeling.** In: Papastavrou, A.C. Policy analysis for forestry development 2:339-357.

1502 Lonnstedt, L., 1984. **Stability of forestry and stability of regions: Contradictory goals? The Swedish case.** Canadian Journal of Forest Research 14:707-711.

1503 Nomura, I., 1984. **Numerical studies on paper-pulp sector model in Japan.** In: Papastavrou, A.C. Policy analysis for forestry development 2:397-405.

1504 Nomura, I., 1985. **Numerical studies with a pulp and paper sector model in Japan.** International Institute for Applied Systems Analysis, Working Paper WP-85-8. 41pp.
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1505 Pearse, P.H. et al., 1984. **Developing a system for analysing Canada's forest economy.** In: Papastavrou, A.C. Policy analysis for forestry development 2:379-395.
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1506 Risvand, J., 1984. **Contributions of the forest sector to the national economy.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:139-149.

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PROFESSIONAL ACTIVITIES, EDUCATION,

EMPLOYMENT OF FORESTERS

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1514 Chavet, M.H.R., 1983. **Forestry education in France.** Journal of Forestry 81:543-545, 572.

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1516 Enarson, E.P., 1984. **Woods-working women: Sexual integration in the Forest Service.** Tuscaloosa, Ala., University of Alabama Press. 174pp.

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1518 Heinrichs, J., 1985. **Pinchot's heirs.** Journal of Forestry 83:277-279.
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1519 Hendee, J.C., 1984. **Public opinion, and what foresters should do about it.** Journal of Forestry 82:340-344.
"The public surveys show that people distrust many of the methods that the profession uses to conduct forestry." Foresters must show the public that they care about environmental concerns, etc. if they are to gain public support. (p.344)

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1521 Johnson, E.W., 1984. **The changing South--how can forestry education respond?** Consultant 29:28-30.
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1522 Joseph, I., 1982. **Forestry training in the Caribbean.** In: Lugo, A.E. and Brown, S., eds. Forestry in the Caribbean. pp.115-120.

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1525 Kronrad, G. and Albers, C.A., 1983. **Factors affecting the business of consulting forestry.** N.C. State Univ., Small Woodlot Forestry R & D Program, Res. Notes Ser. no.13. 18pp.

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1527 Laarman, J.G. and Durst, P.B., 1984. **International dimensions at North American forestry schools.** Journal of Forestry 82:620-622.
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The author is a forestry consultant.

1533 Romm, J., 1984. **Policy education for professional resource managers.** Renewable Resources Journal 2(5):15-17.
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1536 Teeguarden, D.E., 1984. **What forestry students believe.** Journal of Forestry 82:539-545.

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1538 Wellman, J.D. and McMullen, J.Q., 1984. **Teaching forestry students how to write.** Journal of Forestry 82:413-416.
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1539 Williamson, R.D., 1984. **Minority foresters and the Tuskegee Institute.** Journal of Forestry 82:600-602.

Describes the preforestry program established at Tuskegee in 1968.

1540 Williamson, R.D., 1984. **Natural resource career development and minorities: Tuskegee Institute's 15-year-old preforestry program.** In: Proc. of the Symposium on Increasing the Involvement of Minorities and Women in Renewable Natural Resources, Greensboro, North Carolina, 1983. Southern Rural Development Center, SRDC Series no.71. pp.75-83.

1541 Zabel, R.A., 1984. **Building a better forester.** Journal of Forestry 82:724-729.
Continuing education for foresters.

RESEARCH EVALUATION AND METHODOLOGY

1542 Alonso, S.G. and Ramos, A., 1984. **L'evaluation, par absence, de la recherche forestiere.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:173-185. (In French).

1543 Brunig, E.F., 1984. **Forest research and planning in South and Southeast Asia.** Applied Geography and Development 23:46-54.
"In many countries forestry and forest research receive inadequate appreciation, are low in esteem and are neglected in government programmes." (p.46)

1544 Grayson, A.J., 1984. **Evaluation of forestry research.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:89-94.

1545 Gregersen, H.M., 1984. **Forestry research planning and evaluation: An international comparison.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:157-171.
"The approaches used in planning and evaluating forest-based research projects and programs are compared for some 117 institutions in 58 countries." (p.157).

1546 Hyde, W.F., 1984. **Some preliminary experiences in forestry research evaluation in the United States.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:187-200.

1547 Levenson, B.E., 1984. **Economic analysis of tree improvement research in Michigan.** Ph.D., Michigan State University. Ann Arbor, University Microfilms International. 176pp. Date on t.p., 1983.
"This dissertation describes and estimates the economic value of tree improvement research in Michigan." (abstract)

1548 Palo, M., 1984. **Strategic planning of forestry research.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:201-213.
"The purpose of this paper is to introduce a conceptual framework and an approach for the strategic planning of the information system development applicable to varying planning situations in forest sectors in different countries. Research is viewed as a major component in this integrated information system..." (p. 201)

1549 Riddick, C.C., DeSchriver, M. and Weissinger, E., 1984. A

methodological review of research in Journal of Leisure Research from 1978-1982. Journal of Leisure Research 16:311-321.

"A review was undertaken to examine the methodological adequacy of research articles that applied quantitative techniques and were published in Journal of Leisure Research from 1978 to 1982."

1550 Risbrudt, C.D., 1984. **The role of forestry research evaluation in forestry development.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:399-410.

1551 Southern Industrial Forestry Research Council, 1984. **Report no.3.** Jackson, MS, American Pulpwood Association, Special Project 84-A-10; New Orleans, Southern Forest Products Assoc. 11pp. + app.

"The Council has surveyed its members and their companies to determine their most pressing forestry research needs. It also has evaluated the on-going research being conducted at the sixteen univerisities with forestry schools and the twenty U.S. Forest Service Laboratories in the South." (p.1)

1552 Westgate, R.A., 1984. **Indexed bibliography on the research management process; emphasis on research management and administration.** University of Minnesota, College of Forestry, Dept. of Forest Resources, Staff Paper Series no.40. 90pp.

TECHNOLOGY TRANSFER AND EXTENSION

1553 Balneaves, J.M., 1983. **Dissemination and application of research results.** New Zealand Journal of Forestry 28:143-149.

1554 Broderick, S.H., Miller, D.R. and Holmes, T.P., 1985. **Integrating research and extension to organize a forest landowners' association.** Journal of Forestry 83:237-240.

1555 Franklin, E.C. and de Steiguer, J.E., 1982. **How much can you--forestry industry--afford to spend on assistance to private nonindustrial landowners?** N.C. State Univ., Small Woodlot Forestry R & D Program, Res. Notes Ser. no.5. 4pp. Reprinted from: Proc. 1982 Tappi R & D Conf. pp.227-230.

1556 Greason, M.C., 1985. **Public service forestry in New York: What it means to the forest industry from a service forester's point of view.** Northern Logger and Timber Processor 33(10):22-23.

1557 Hermelin, J., 1981. **Is traditional technology transfer capable of creating a forest renewal on private woodlots in our changing society?** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.80-85.

1558 Irland, L.C., 1981. **Federal and state assistance to nonindustrial private forest owners in New England, USA: Issues for the year 2000.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.42-55.

1559 Kibblewhite, R.P., 1984. **Some observations on the transfer of new forestry and forest products technology.** New Zealand Journal of Forestry 28:314-324.

1560 Martin, A.J., 1985. **Landowners associations as "target" groups for achieving improved forest management.** National Woodlands 8(3):7-9.

The educational and service programs of state and federal forest agencies "should be targeted toward owners of

medium-to-larger-sized tracts of woodland" because there is evidence "that economic efficiency and timber management potential increase as the size of the woodland tract increases." (p.7)

1561 Parks, J.G., 1981. **Landowner assistance in the South.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.30-41.
Describes International Paper Co.'s private landowner assistance program in the South.

1562 Pelinck, E., Manandhar, P.K. and Gecolea, R.H., 1984. **Forestry extension: Community development in Nepal.** Unasylva 36(143):2-12.

1563 Salleh, M.N. and Hoi, W.K., 1984. **Research and dissemination of research results in wood energy--prospects and problems.** In: FAO/ESCAP Regional Workshop, Bangkok, 1983. Report: Wood energy development. pp.93-101.
"The main objective of this paper is to draw together the many aspects of research into biomass energy development and to highlight the need for dissemination of research results quickly and efficiently." (p.93)

1564 Weatherhead, D.J., 1984. **NIPF's-time to focus.** Washington State Univ., Agriculture Research Center, Res. Bull. 953. 4pp.
The author believes that the efforts of service foresters and extension foresters should be redirected and that attention should be focused on the larger NIPF ownerships.

ENVIRONMENTAL CONCERNS

1565 Burnett, G.W., 1985. **Kenya's forests: Going up in smoke?** Western Wildlands 11(2):25-27.
Continued reliance on charcoal has led to widespread deforestation in Kenya.

1566 Choi, Y.H., ed., 1985. **Culture and the environment.** Environmental Management 9(2):95-177.
A special issue including articles on the relation of culture to environment in the U.S., the Soviet Union, Great Britain, Italy, France, Ghana, the Cape Verde Island, and Japan.

1567 Cook, E.H., 1985. **Desertification and deforestation: A selected bibliography of English language sources.** Monticello, IL, Vance Bibliographies. Public Administration Series: Bibliography P-1641. 25pp.

1568 Crowell, J.B., Jr., 1983. **Current public policies on natural resources: The symbiosis of environmental quality and economic efficiency.** Oklahoma State University, Dept. of Forestry, 1983 Nat Walker Lectureship. unpaged.
The author states that the philosophy of the Reagan administration is that "a healthy economy is crucial to a healthy and perpetually productive environment."

1569 Dorney, J.R. and Leitner, L.A., 1985. **Woodlot scale: A method for rapid assessment of woodlot values.** Environmental Management 9:27-34.
"A method is described for the rapid survey and determination of the ecological value of woodlots...The method should be valuable to land-use planners for environmental impact assessment and regional planning." (p.27)

1570 Eckerberg, K., 1985. **Environmental considerations in Swedish forestry: A study of the administrative process.** Environmental Management 9:19-26.
"This report briefly describes the implementation process involving nature conservation considerations in forestry, according to a recently passed law in Sweden." (p.19)

1571 Enabor, E.E., 1982. **Economics of tropical forest resources conservation.** In: Srivastava, P.B.L. et al., eds. Tropical forests--source of energy through optimisation and diversification. pp.51-61.
This paper "stresses the need for conservation policy in

the tropics to focus on the underlying causes of forest destruction, rather than attempting to treat the effects by imposing restrictive controls on forest land use...." (p.60)

1572 Foltz, B.V., 1984. **On Heidegger and the interpretation of environmental crisis.** Environmental Ethics 6:323-338.
"The present 'environmental crisis' ultimately derives not from certain Judeo-Christian 'values'...but from the initial metaphysical orientation of early Greek philosophy." (p.323)

1573 Gatto, M. and Rinaldi, S., 1984. **Catastrophes in exploited forests.** International Institute for Applied Systems Analysis, Working Paper WP-84-78. 28pp.
"This paper shows why small variations of the human exploitation of a natural forest can give rise to dramatic changes in forest biomass." "An increase of the exploitation may give rise to a catastrophic collapse of the forest if the...acidic deposition is sufficiently high." (pp.iii-iv)

1574 Greig, P.J., 1984. **Environmental constraints in the forestry and wood manufacturing sectors.** Australian Forestry 47:69-75.
"There is...a need to specify environmental constraints in such a way that they do not unnecessarily inhibit production, or add to its costs." (p.75)

1575 Hilton, R.G.B. and Johns, R.J., 1984. **The future of forestry in Papua New Guinea.** Commonwealth Forestry Review 63:103-106.
"The conservation of the natural forest heritage of Papua New Guinea...depends, to a very large extent, on the establishment of a number of large scale, and efficient, forest plantations. Without this the rape and pillage of the natural forest will continue unabated until, in the not too distant future, it will have ceased to exist." (p.106)

1576 Lowe, R.G., 1984. **Forestry and forest conservation in Nigeria.** Commonwealth Forestry Review 63:129-136.

1577 Lundgren, B., 1984. **Global deforestation, its causes and suggested remedies.** Contribution to the "Global Forest Session" of the Club of Rome 1984 Helsinki Conference, July, 1984. 9pp.

1578 Martin, B., 1985. **Impact de l'homme sur la foret. Ecologie ou economie?** Revue Forestiere Francaise 37:5-16.
(In French, English summary). Title of English summary: "Human impacts on forests. Ecology or economics?" "Two opposite trends are putting pressure on the forests: intensification, to give greater profitability, and

protection, to give a higher ecological value." (p.16)

1579 Moeller, B.B., 1984. **Is the Brazilian Amazon being destroyed?** Journal of Forestry 82:472-475.

1580 Mohd. Basri, H., Kamis, A., and Rusli, M., 1983. **Issues in Malaysian forestry.** Malaysian Forester 46:409-424.
"The major issues facing Malaysian forestry today are the environmental impact of forestry practices and the rapid depletion of the forest resource with other issues being interrelated emanations of these... The paper briefly discusses these issues and their interrelations within the perspective of the nation's economic development." (p.409)

1581 Palo, M., 1984. **Deforestation scenarios for the tropics.** In: Papastavrou, A.C. Policy analysis for foresty development 2:449-463.

1582 Patterson, W.A., III, 1984. **Environmental impacts of growing and harvesting timber.** In: Rosen, H.N., ed. The impact of energy and environmental concerns on chemical engineering in the forest products industry. pp.52-60.

1583 Postel, S., 1984. **Air pollution, acid rain, and the future of forests.** Washington, D.C., Worldwatch Institute. Worldwatch Paper 58. 54pp.
Includes a section on "counting the costs."

1584 Rao, Y.S., 1982. **Forest exploitation in Southeast Asia.** In: Srivastava, P.B.L. et al., eds. Tropical forests--source of energy through optimisation and diversification. pp.13-26.
"The paper draws attention to the necessity of managing tropical forests not only to trigger economic and social development but also for the stability of the environment." (p.13)

1585 Ruckleshaus, W.D., 1984. **A national policy for assessment and management of environmental risk.** Oklahoma State University, Dept. of Forestry, 1984 Nat Walker Lectureship. Unpaged.

1586 Srun, S.M., 1985. **Tropical forest cover continues to disappear.** World Wood 26(1):17-19.

1587 Travis, C.C., Etnier, E.L., and Meyer, H.R., 1985. **Health risks of residential wood heat.** Environmental Management

9:209-215.

Indications are "that safety hazards resulting from production and end use of residential wood-heat are 10-100 times the corresponding hazards of electric heat energy." (p.214)

1588 U.S. General Accounting Office, 1982. **Changes needed in U.S. assistance to deter deforestation in developing countries: Report to the Congress by the Comptroller General of the U.S.** U.S. General Accounting Office. 56pp.

This report discusses the problem of deforestation in developing countries. The GAO found "that the principal cause of deforestation--subsistence farmers' clearing of forests for pastures, farmland, fuelwood and livestock fodder--is not being adequately addressed in U.S. assistance activities."

1589 Vaughan, L., 1984. **Logging and the environment--a review of research findings and managment practices.** Rotorua, New Zealand Logging Industry Research Association. 75pp.

Includes sections on the environmental impact of logging on soils, environmental impact of logging on water, effects of logging on wildlife, etc.

1590 Walsh, B.W., 1985. **After Watt: The environmentalists.** Journal of Forestry 83:212-217.

SOCIAL SCIENCES APPLIED TO FOREST MANAGEMENT

GENERAL

1591 Baskerville, G., 1985. **Adaptive management: Wood availability and habitat availability.** Forestry Chronicle 61:171-175.

1592 Dippon, D.R. and Tedder, P.L., 1983. **Predicting the economic impacts of intensified forest management: Douglas County, Oregon, as a case study.** Oregon State Univ., For. Res. Lab., Res. Bull. 41. 30pp.
"A model consisting of a linked series of equations is presented for estimating the future effect of various intensities of forest management on the economy of a region."

1593 Ferguson, I.S., 1984. **Plantation management in Australia.** New Zealand Journal of Forestry 28:327-338.
Marketing issues now assume a much greater prominence in terms of investment in additional plantations...and possible competition from overseas imports." (p.327)

1594 Grouev, I., 1984. **Forest management in Bulgaria.** Unasylva 36(145):40-46.

1595 Huillet, C., 1984. **Public management of forest resources.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:47-50.
Reports on two projects of the OECD Technical Co-operation Service which relate to public management of forestry resources.

1596 Jabil, D.M., 1983. **Problems and prospects in tropical rainforest management for sustained yield.** Malaysian Forester 46:398-408.

1597 Konohira, Y., Minowa, M. and Amano, H., 1983. **Data regarding the forest management in Japan.** In: Carcea, F., coord. Forest management in various countries of the world. Bucharest, IUFRO. pp.349-360.

1598 Kuusela, K. and Nyyssonen, A., eds., 1983. **Forest inventory for improved management: Proceedings of the IUFRO Subject Group 4.02 meeting in Finland, Sept. 5-9, 1983.** Helsingin Yliopiston Metsanarvioimistieteen Laitos Tiedonantoja no.17. 207pp.

1599 Lofgren, K.G., 1984. **On the social optimality of the normal forest.** Sveriges Lantsbruksuniversitet, Inst. for Skogsekonomi, Rapport 55. 17pp.

"This paper asks the question under what circumstances the (maximum) sustainable yield forest and/or the normal forest make economic sense." (p.2)

1600 Lyon, G.W., 1983. **An economic model of uneven-aged forest stands.** Ph.D, University of Washington. Ann Arbor, Mich., University Microfilms International. 101pp.

1601 Mullen, A., 1985. **Issues facing the high-country forester.** Journal of Forestry 83:280-282.

1602 Palosuo, V.J., 1985. **Forest resource management: Influence of policy and legislation in Finland.** International Union of Societies of Foresters Newsletter 21:6-8.

1603 Parry, B.T., 1983. **Barriers to coordinating federal and state resource assessments in California.** Journal of Forestry 81:541-542.

1604 Smyth, J.H., Ramsay, K.L. and Barron, D.E., 1984. **Forest management expenditures in Canada, 1977-1981: A joint report of the Great Lakes Forest Research Centre and the Canadian Pulp and Paper Association.** Great Lakes For. Res. Cent., Joint Report no.1; Information report W.S. Index 2918 (F-11). 99pp.

"Expenditures in forest management activities by governments and the forest industry for the years 1977, 1979 and 1981 are reported." (abstract)

1605 Vaux, H.J., 1984. **Forest resource managment: The next 25 years.** In: Proceedings Twenty-Five Year Anniversary Symposium School of Forestry and Wildlife Resources, Virginia Polytechnic Institute and State University, Blacksburg. pp.7-16.

MULTIPLE USE MANAGEMENT

1606 Byington, E., Child, D., Byrd, N., Dietz, H. et al., 1983. **Management of southern U.S. farms for livestock grazing and timber production on forested farmlands and associated pasture and range lands.** Morrilton, Arkansas, Winrock International. 60pp.

This publication is concerned with "multiple-use management for forest grazing and wood products."--the integration of forestry and livestock production. (p.1)

1607 Clason, T., ed., 1982. **Multiple use land management for nonindustrial pine forest landowners: Timber management for profit and pleasure.** Lousiana Agr. Expt. Sta. and LSU Coop. Ext. Serv. 110pp.

Proceedings of a conference for nonindustrial forest landowners held at Ruston, LA, March, 1982.

1608 Dauphine, T.C. and Pollard, D.F.W., eds., 1985. **Proceedings of a Symposium on Forestry and Wildlife Management in Canada.** Forestry Chronicle 61:121-202.

The symposium was held at the University of British Columbia, Vancouver, May 7-10, 1984. "The purpose of the symposium was to bring together foresters and wildlife managers, with representatives from the academic community, industry and public interest groups, to examine ways to integrate more closely the management of forest resources." (p.123)

1609 Davis, B.W., 1984. **Management of non-wood values in state forests: Should the user pay? 1.Non-wood values and state foresty policy: Some socio-political dimensions.** Australian Forestry 47:143-147.

1610 Eleftheriadis, N., 1984. **An integrated forest land use model: The case of Thassos.** In: Papastavrou, A.C. et al. Policy analysis for forestry development. 1:465-477.

1611 FAO Forest Department, 1984. **Intensive multiple-use forest management in Kerala.** Rome, Food and Agriculture Organization of the United Nations. FAO Forestry Paper no.53. 137pp.

This report deals with the management of rainforests (evergreen forests) and teak plantations in Kerala State, India.

1612 Ffolliott, P.F., Brooks, K.N., and Guertin, D.P., 1984. **Multiple-resource modeling--Lake State's application.** Northern Journal of Applied Forestry 1:80-84.
"This is one of the first attempts in the Lake States to link components that can estimate production relationships for different land management options." (p.80)

1613 Fox, I.K., 1985. **Socially optimal allocation of publicly owned resources among competing uses.** Forestry Chronicle 61:140-142.
"This paper assesses the processes used in British Columbia for integrated management of forest resources...." (p.140)

1614 Innes, M.R., 1985. **The problems of integrating forestry and wildlife management: The foresters' viewpoint.** Forestry Chronicle 61:134-136.

1615 Johansson, P.-O., 1985. **Approaches to determining monetary welfare change measures.** Canadian Journal of Forest Research 15:126-131.
"This paper derives cutting rules to be used in situations where uses other than timber production are affected by the design of the cutting program." (p.126)

1616 Johansson, P.-O., 1984. **On socially optimal cutting rules when forest lands are managed partly for nontimber purposes.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Rapport no. 54. 26pp.
"This paper derives cutting rules to be used in situations where forest uses other than timber production are affected by the design of the cutting program." "The paper also contains a discussion of whether forest owners should be induced...through regulations to behave in a socially optimal way when there are multiple uses of forest land." (p.1)

1617 Johansson, P.-O., 1984. **On socially optimal cutting rules when forest lands are managed partly for nontimber purposes.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 25:1-20.
"The purpose of this paper is to derive cost-benefit rules which can be used in situations where there are multiple uses of forest lands. To derive appropriate cost-benefit rules for timber production the paper develops an intertemporal model of an open economy." (p.2)

1618 Kaiser, F., Schweitzer, D. and Brown, P., comp., 1984. **Proceedings for economic value analysis of multiple-use forestry. IUFRO Work Project 4.08.00.** Corvallis, Oregon State University, Dept. of Resource Recreation Management. 187pp.

"The papers included in the proceedings illustrate the research being conducted throughout the world on economic value analysis of multiple-use forestry." (Preface) The papers were presented at two International Union of Forestry Research Organization meetings in August, 1984 of Work Project 4.08.00. Added title: "Research today for tomorrow's forests."

1619 Knopp, T.B. and Caldbeck, E.S., 1985. **Testing a new method of public input to the allocation of state forest lands to alternative land-use combinations.** University of Minnesota, College of Forestry, Dept. of Forest Resources, Staff Paper Series no.51. 61pp. + app.

1620 Naveh, Z., 1984. **Multiple use of Mediterranean uplands: An ecological and sociological challenge.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:451-463.

Describes how conservation and rehabilitation of Mediterranean uplands can be achieved "by multi-purpose land use strategies and especially by multiple afforestation." (p.452)

1621 Papastavrou, A.C., 1984. **Forest land use conflicts in Greece.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:95-117.

Among the major groups of forest land uses in Greece are: Wood production, recreation, national parks, wildlife, watershed protection, grazing and mining.

1622 Plochmann, R., 1984. **Individual objectives and social goals on forest resources.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:11-19.

1623 Reunla, A., 1984. **Some aspects of social and psychological importance of forests in Finland.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.55-64.

Three social and psychological benefits of forestry are described: (1) forest's role in the culture and identity of people, (2) the feeling of security given by familiar forests, (3) forests as a place to escape from the stresses of life. 3/4 of the land area of Finland is forested.

1624 Romm, J. and Bartoloni, K., 1985. **The new rules for national forest water.** Journal of Forestry 83:362-367.

Discussion of the Rio Mimbres decision. The Forest Service had claimed legal right to enough water to satisfy the purposes for which Congress had authorized reservation of forestland from the public domain. The Court disagreed,

thereby changing the legal basis for multiple-use planning on the national forests. (p.363)

1625 Row, C., 1984. **Problems in integrating recreation uses in multiple-use management in the United States Forest Service.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:169-183.

The author discusses "the primary operational distinctions" and examines "the practical problems of integrating on-site uses into commodity production in long-range planning on U.S. National Forests." (p.169)

1626 Schweitzer, D.L., 1984. **The meaning of 'interdisciplinary' in the physical and social worlds of public forestry.** Renewable Resources Journal 2(5):11-14.

"In managing the national forest, we are working toward a fully interdisciplinary approach...." (p.14)

1627 Sinden, J.A., 1984. **Management of non-wood values in state forests: should the user pay? 3. Who should pay for non-wood forest values?** Australian Forestry 47:154-163.

"Payment schemes... should rest on the user-pays principle or the ability-to-pay principle." (p.154).

1628 Stein, A.B., 1984. **Integrating forest policy into regional development.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:421-437.

"Forest policy should concentrate on integrating the forest system into the full range of land uses and human activities: among them are tourism, industry, urban development, and agriculture, land reclamation, pollution control and in environmental and visual enhancement." (p.421)

1629 Thomas, J.W., 1985. **Towards the managed forest: Going places where we've never been.** Forestry Chronicle 61:168-170.

Integration of forestry and wildlife management.

OWNERSHIP

PUBLIC

1630 Behan, R.W., 1985. **The economics and politics of public land management: A case of institutional lunancy (and a few modest prescriptions).** Western Wildlands 11(2):28-31.

1631 Brubaker, S., 1984. **Land, lots of land.** Renewable Resources Journal 2(4):19-22.
Review of issues relating to management of the federal lands.

1632 Edwards, F.A. and Etchart, M.D., 1984. **Better land management through land ownership adjustments.** Your Public Lands 34(4):3-7.

1633 Loomis, J.B., 1984. **Economic efficiency vs. distributive equity: BLM's use of economic analysis in fact and fiction.** Western Journal of Agricultural Economics 9:207-213.

1634 Macenko, S.L. and Neimanis, V.P., 1983. **An overview of crown land management in Canada.** Environment Canada, Land Policy and Research Branch, Working Paper no.27. 78pp.
"The majority of land in Canada lies within the direct jurisdiction of federal or provincial authorities. This paper provides an overview of Crown land management practices in these eleven separate jurisdictions." (p.v)

1635 Oregon State Forestry Dept., 1985. **Management, marketing, and harvesting of Oregon's public forests.** Oregon State Dept. of Forestry. 8pp.
A biennial report to the governor and the state legislature.

1636 Riggs, C., 1984. **Access to public lands: A national necessity.** Exxon USA 23(2):8-11.
The author contends that "America is locking up its economic future along with its public lands," and advocates opening up some of the public land to oil and gas exploration. (p.8)

PRIVATE - INDUSTRIAL

1637 Jabil, D.M., 1984. **Industrial forest plantations: The future of ASEAN timber.** Tropical Forests 1(1):12-15.

Future timber production in the ASEAN region (Malaysia, Philippines, Indonesia, Thailand) will be influenced by two factors: (1) rapid rate of forest resource depletion, and (2) slow rate of forest renewal. (p.13) One of the options open to increase forest production is the establishment of large scale industrial forest plantations. (p.14)

PRIVATE - NONINDUSTRIAL

1638 Belzile, H., 1981. **Improvements in the status of Quebec's private forest over the past ten years.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.15-22.

1639 Brooks, D.J., 1984. **Nonindustrial forests, public policy and long-term timber supply in the South.** Ph.D. thesis, Oregon State Univ. Ann Arbor, University Microfilms International. 104pp.

1640 Buttoud, G., 1981. **Small private forest in France: Structures and policies.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.56-65.

1641 Chavet, M.H.R., 1983. **Coordination in the long range management of several forests: Economic methodology for the case of a non-industrial private owner.** Ph.D. thesis. University of California, Berkeley. Ann Arbor, Mich., University Microfilms International, 1985. 312pp.
"An economic methodology has been set up to examine some of the effects of coordinating the management of several forests into one management unit under financial constraints." (abstract)

1642 Cunningham, G.R., Giese, R.L. and Rausch, T.J., 1984. **Wisconsin private nonindustrial woodlands: assessment of current programs and recommendations for new approaches to education and service.** University of Wisconsin, Dept. of Forestry, Staff Paper Series no.21. 44pp.

1643 Dartington Amenity Research Trust, 1983. **Small woods on farms. A report to the Countryside Commission.** Cheltenham, UK. 105pp.
Reports on a project to "investigate the current condition of small woodlands on farms." (p.1)

1644 de Steiguer, J.E., 1984. **Explaining the reforestation behavior of nonindustrial private forest owners in the United States.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:271-283.

1645 Dickson, A., 1985. **What owners expect from their woodlots.** Forestry Chronicle 61:159-162.
"Findings made in the recent New Brunswick Private Woodlot Resources Study are discussed. (p.159)

1646 Dutrow, G.F., 1984. **Economics of small tracts.** In: Symposium on the Loblolly Pine Ecosystem (West Region), Jackson, MS, 1984. Proceedings. Cosponsored by Miss. State Univ. Sch. of For. Res., Miss. Coop. Ext. Serv., and Southern For. Expt. Sta. pp.279-285.
"The small woodlot owner appears to behave in an economically rational manner in investing in forest management...Given existing constraints of technical knowledge and available capital, less intensive management appears a more likely option for many of these owners." (p.279)

1647 Franklin, C., 1985. **Managing your woodland for profit.** N.C. State Univ., Small Woodlot Forestry R & D Program, Res. Note Ser. no.44. 6pp.

1648 Franklin, E.C., Miller, M. and Pramik, C., eds., 1985. **Private non-industrial forestry--the first hundred years--an annotated bibliography.** N.C. State Univ. Small Woodlot Forestry R & D Program, Res. Note Ser. no.46. 270pp.

1649 Goff, G.R., Lassoie, J.P. and Layer, K.M., 1984. **Timber management for small woodlands.** Cornell Coop. Ext. Publ. Info. Bull. 180. 56pp.
Includes chapters on "woodland management practices," "harvest and sale of timber," and "economics of forest ownership."

1650 Helles, F., 1984. **On alteration of generations in the ownership of Danish forests.** In: Papastavrou, A.C. Policy analysis for forestry development. 2:39-50.
"Because of fiscal implications one of the most important economic menaces to private forestry in Denmark is its transfer between generations." (p.41)

1651 Hickman, C.A., 1984. **Socio-economic characteristics of prospective nonindustrial private timber sellers in East Texas.** U.S. For. Serv., Research Note SO-308. 4pp.

1652 Jarvelainen, V.P. and Karppinen, H., 1983. **Hakkuumahdollisuuksien hyvaksikaytto yksityismetsaloilla (II). Satakunnan ja Pirkka--Hameen piirimetsalautakuntien aluetta koskevia ennakkotietoja.** Metsantutkimuslaitoksen tiedonantoja no. 123. 57pp.

(In Finnish, English summary). Title of Summary: "The use of allowable drain from private woodlots (II). Preliminary results concerning Satakunta and Pirkka-Hame forestry board districts in western Finland."

1653 Kennedy, R.F., 1984. **A case history of industry application of management to non-industrial private forest lands.** In: Symposium on the Loblolly Pine Ecosystem (West Region), Jackson, MS, 1984. Proceedings. Cosponsored by Miss. State Univ. Sch. of For. Res., Miss, Coop. Ext. Serv., and Southern For. Expt. Sta. pp.269-277.

The application of cost effective, sound management principles to nonindustrial forest lands appears to the author to be the quickest and most economical way to raise productivity.

1654 Kintigh, B., 1984. **A forester and woodland owner looks at the NIPF "problem."** Consultant 29:31-33.

1655 Krmpotich, S.J., 1982. **The owners of non-industrial private forests and their land of Minnesota; Aspen-birch unit, 1980.** University of Minnesota, Duluth, School of Business and Economics, Working Paper no.82-5. 151pp.

This report is "part of an effort to evaluate characteristics of the owners of nonindustrial private forests (NIPF) in Minnesota." (p.i)

1656 Kroth, W., 1984. **Effects of alternative forest taxation policies on timber supply from NIP-forests.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:327-343.

1657 Kumazaki, M., 1984. **Occupational characteristics of private forest owners and their attitude toward timber production in Japan.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:311-326.

"The purpose of this paper is to present some statistical evidence on changes in occupational characteristics of woodland owners and to discuss their implications for forest management and forestry policy." (p.312)

1658 Kurtz, W.B., 1985. **Characteristics of NIPF owners in Missouri and Wisconsin.** National Woodlands 8(2):8-10.

1659 Lafond, P., 1981. **Manangement plans for private forests.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.74-77.

1660 Le Blanc, P., 1981. **Is the freedom of choice for private woodlots in New Brunswick in jeopardy?** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.6-14.

1661 Lortie, M. and Lamontagne, M., eds., 1981. **Proceedings of the Symposium on Eastern Canada Small Private Land Forestry, Universite Laval, 1981.** Sponsored by Dept. d'amenagement et de sylviculture, Univ. Laval, and the Laurentian Forest Research Centre. 110pp.

1662 Lussier, L.-J., 1981. **Towards a philosophy and an economics of forestry management in Quebec.** In: Lortie, M. and Lamontagne, M., eds. Proc. Symposium on Eastern Canada Small Private Land Forestry. pp.88-103.

1663 Mack, R.J., Harou, P.A., and Mawson, J.C., 1983. **A timber management and cash flow simulator for non-industrial forest land in the Northeast.** Massachusetts Agr. Expt. Station, Research Bulletin 684. 34pp.

"A program called FITSIM has been written to simulate timber growth and financial return from managing non-industrial forest land in the Northeast." (abstract)

1664 McDonald, B., 1983. **Surrogate respondents: Ability of forestry students to identify intangible forest ownership objectives and benefits.** N.C. State University, Small Woodlot Forestry R & D Program, Res. Notes Ser. no.10. 17pp.

"This study is part of a research project investigating the role of forest aesthetics in forest management decisions of nonindustrial private forest (NIPF) landowners." (p.1)

1665 Minnesota Department of Natural Resources, Division of Forestry, 1984. **Private forest plantations in Minnesota.** St. Paul, Minnesota DNR. 42pp.

"The purpose of this report is to present a picture of the extent and characteristics of the nonindustrial private conifer forest plantation resource in Minnesota." (p.1)

1666 Montgomery, A.A., 1985. **The pattern of ownership and control of Georgia's forest resource.** Georgia Forest Research Paper no.57. 10pp.

"While the future timber supply will continue to benefit somewhat by the shift in ownership and control of the forest to those who will manage it productively, the solution to the nonindustrial landowner problem mainly depends upon motivating a change in management behavior...." (p.10)

1667 New Brunswick Private Woodlot Resources Study, 1983. **Private woodlots: What does the future hold? Report of the New Brunswick Private Woodlot Resources Study.** Fredericton, N.B. 119pp.

1668 Palosuo, V.J., 1981. **Experiences on enhancing small private-land resources in Finnish forestry.** In: Lortie, M. and Lamontagne, M., eds. Proc. of the Symposium on Eastern Canada Small Private Land Forestry. pp.66-73.

1669 Parker, R.G., 1984. **Willingness of Michigan landowners to sell fuelwood.** Northern Journal of Applied Forestry 1:85-87.
Reports on "a case study of willingness to sell timber and fuelwood in the northern Lower Peninsula of Michigan...." "This information should be useful in assessing timber supplies and in designing efforts to interest landowners in improved forest practice." (p.85)

1670 Porterfield, R.L., 1984. **A discussion of landowner attitudes.** In: Symposium on the Loblolly Pine Ecosystem (West Region), Jackson, MS, 1984. Proceedings. Cosponsored by Miss. State Univ. Sch. of For. Res., Miss. Coop. Ext. Serv., and Southern For. Expt. Sta. pp.261-268.
"A profile of small nonindustrial forest land ownership is presented. The factors that influence whether or not these forest landowners practice forest management are discussed.... Recommendations to improve forest productivity based on landowner characteristics and attitudes are provided." (p.261)

1671 Reed, F.L.C., 1981. **Canadian Forest Service role in private woodlot management.** In: Lortie, M. and Lamontagne, M., eds. Proc. Symposium on Eastern Canada Small Private Land Forestry. pp.106-108.

1672 Reynolds, R.R., Baker, J. B. and Ku, T.T., 1984. **Four decades of selection management on the Crossett Farm foresty forties.** Arkansas Agr. Exp. Sta., Bulletin no.872. 43pp.
"One of the objectives of the farm forestry study was to determine if annual timber production on small properties could be as financially attractive as row-cropping." (p.37)

1673 Smaller, P.G. and Meister, A.D., 1983. **The practices, problems and economics of farm woodlots.** Massey University, Dept. of Agr. Econ. and Farm Management, Discussion Paper in Natural Resource Economics no.6. 78pp.
Purpose of the study: To answer 2 basic questions: (1) Why do farmers plant woodlots? (2) are woodlots a profitable

investment to a farmer?

1674 Society of American Foresters, 1983. **Improving outputs from nonindustrial private forests: A position of the Society of American Foresters.** Journal of Forestry 81:572-574.

1675 Straka, T.J., 1985. **Nonindustrial private forest timber output: A position projection system.** Resource Management and Optimization 3:209-217.

1676 Straka, T.J., Wisdom, H.W. and Moak, J.E., 1984. **Size of forest holding and investment behavior of nonindustrial private owners.** Journal of Forestry 82:495-496.

"Size of forest holding in known to be positively related to timber production on nonindustrial private forests." (p.495)

1677 Vodak, M.C., Roberts, P.L., Wellman, J.D., and Buhyoff, G.J., 1985. **Scenic impacts of eastern hardwood management.** Forest Science 31:289-301.

"The purpose of this research was to quantify private nonindustrial forest landowner perceptions of the scenic beauty of hardwood stands under varying management regimes." (p.289) The initial concern of the project was with timber supply from nonindustrial private forest lands, but the authors believe that their findings have broader applications.

1678 Wilhelmsson, E., 1984. **Estimation of potential cut in private forests in Sweden with regard to legal restrictions.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:355-361.

LABOR CONSIDERATIONS - WORK STUDIES

1679 Dobie, J., 1985. **Labour productivity and cost trends in Canadian forest industries.** Forestry Chronicle 61(1):32-34.

1680 Doolittle, T.L., Spurlin, O., and Scontrino, M.P., 1985. **Validation of physical performance tests for the forest industry.** Forest Products Journal 35(6):19-25.
"Entry-level jobs in logging, sawmills, plywood mills, and pulp, paper and paper conversion were thoroughly analyzed to determine the physical strengths and endurance requirements for the more demanding tasks." (p.25) Standards were established.

1681 Liss, J.-E., 1984. **Drivningsmetoder for sjalvverksamma skogsagare vid tillvaratagande av bransleflis. Methods used by self-employed forest owners for harvesting fuel chips.** Sveriges Lantbruksuniversitet, Institutionen for Skogsteknik, Rapport nr. 162. 66p. + tables.
(In Swedish, English summary). In addition to the results from work studies, economic calculations of machine costs and allowances to cover fixed costs and wages are also reported. (abstract)

1682 Smith, B. and Wilson, P., 1983. **Labour turnover in a large integrated forestry complex.** FRI Bulletin no. 56. 29pp.
"This publication examines labour turnover within a large integrated New Zealand forestry complex over the period 1961-1979." (p.1)

1683 Webb, R.D.G. and Hope, P.A., 1983. **Ergonomics and skidder operations in northern Ontario: A preliminary investigation.** Canadian Forestry Service Information Report DPC-X-15. 25pp.

PROTECTION

1684 Bacon, W.R. and Dell, J., 1985. **National forest landscape management, vol.2, chapter 6: Fire.** U.S. Department of Agriculture, Agriculture Handbook no.608. 89pp.
Includes sections on fire management and control, "corridor viewshed planning," prescribed fire, etc.

1685 Birch, J.E., 1985. **Forest fire management in the United States: 1984 highlights.** In: Reports tabled at 1985 annual meeting. Canadian Committee on Forest Fire Management, Whitehorse, Yukon, Jan., 1985. National Research Council Canada. 12pp.

1686 Bousfield, W.E. et al., 1984. **Economics of Douglas-fir tussock moth control.** U.S. Forest Service, Forest Pest Management. 36pp.
Subtitle: "An analysis using the combined Stand Prognosis/Douglas-fir Tussock Moth Outbreak Model and the FORPLAN Linear Programing Model on the Clearwater and Malheur National Forests."

1687 Bradshaw, W.G. and Huff, T.G., 1985. **Arsonists in California and New York: A tentative look.** U.S. Forest Service, Research Note PSW-372. 5pp.
"A nonrandom sample of 90 arsonists in California and New York was interviewed for the California Department of Forestry from 1977-1979."

1688 Chandler, C. et al., 1983. **Fire in forestry. Vol. II: Forest fire management and organization.** New York, Wiley. 298pp.
Contents include: "Fire management policy" and "Economics of fire management."

1689 Cortner, H.J.; Zwolinski, M.J.; Carpenter, E.H., and Taylor, J.G., 1984. **Public support for fire-management policies.** Journal of Forestry 82:359-361.
A survey conducted in Tucson, Arizona showed that "Public acceptance and understanding of the purposes and benefits of fire management are high...." (p.359)

1690 Donoghue, L.R. and Main, W.R., 1985. **Some factors influencing wildfire occurrence and measurement of fire prevention effectiveness.** Journal of Environmental Management 20:87-96.
"This paper describes an exploratory study of the relations between human-caused wildfire occurrence in the eastern U.S.A. and four independent variables: Latitude,

weather, non-metropolitan population density, and law enforcement." (p.87)

1691 Donoghue, L.R. and Paananen, D.M., 1984. **The legal system, the U.S. Forest Service, and human-caused wild fires.** U.S. For. Serv., Research Paper NC-248. 57pp.
Following an overview of the American legal system etc., "describes the current status of Forest Service law enforcement efforts directed at wildfire violations." (abstract)

1692 Fischer, W.C., 1984. **Wilderness fire management planning guide.** U.S. For. Serv., Gen. Tech. Rep. INT-171. 56pp.
"This report attempts to guide wilderness fire management planning by suggesting a common terminology, examining important planning concepts, and identifying, describing, and discussing essential planning elements."

1693 Furman, R.W., 1984. **Evaluating the adequacy of a fire-danger rating network.** Forest Science 30:1045-1058.

1694 Kilgore, B.M., 1984. **Restoring fire's natural role in America's wilderness.** Western Wildlands 10(3):2-8.
In the past 20 years there has been a change in policies from fire control to fire management on public lands. (p.2).

1695 Kourtz, P., 1984. **Decision-making for centralized forest fire management.** Forestry Chronicle 60:320-327.
Some Canadian forest fire control agencies are considering "the restructuring of their three-level, decentralized organizations to a provincial-regional, centralized fire management unit." (p.320)

1696 Kronrad, G.D., 1984. **Insect pest control: Economic theoretical models, costs and benefits, and a review of the forestry literature.** N.C. State Univ., Small Woodlot Forestry R & D Program, Res. Note Ser. no.39. 56pp.

1697 Marty, R., 1984. **A program for evaluating the economic effectiveness of spruce budworm control with a programable hand-held calculator.** U.S. For. Serv., Gen. Tech. Rep. NE-92. 10pp.

1698 McGregor, M.D. and Cole, D.M., eds., 1985. **Integrating management strategies for the mountain pine beetle with multiple-resource management of lodgepole pine forests.** U.S. Forest Service, Gen. Tech. Rep. INT-174. 68pp.

1699 Miller, H.N. and Newell, M.E., 1985. **NIIMS and state forestry organizations.** Fire Management Notes 46(1):25-26.
NIIMS, the National Interagency Incident Management System, is being adopted by many emergency service agencies across the U.S. NIIMS is designed as a wildland fire suppression organization and support system. (p.25)

1700 Norris, L.A., 1985. **Implementing forest pest management practices in the USA: Problems and solutions.** Forestry Chronicle 61:243-246.
"Implementation of effective pest management strategies in intensive forestry is impeded by educational, technical, administrative, and legal problems." (p.243)

1701 Payne, T.L., Billings, R.F., Coulson, R.N. and Kulhavy, D.L., eds., 1984. **History, status, and future needs for entomology research in southern forests. Proceedings of the 10th anniversary of the East Texas Forest Entomology Seminar, 1983.** Texas Agr. Expt. Sta. MP 1553. 72pp.

1702 Stewart, J.L., 1985. **Current use and potential for implementing forest management practices in intensive forest management in the U.S.A.** Forestry Chronicle 61:240-242.
Foresters are restricted in forest pest management not by lack of technology, but by economic, political, and public pressures.

1703 Takekawa, J.Y. and Garton, E.O., 1984. **How much is an evening grosbeak worth?** Journal of Forestry 82:426-428.
The "economic value of bird predation on two stands in north-central Washington" was estimated "by substituting the cost to spray with insecticides to produce the same mortality rate as birds cause." (p.426)

1704 Taylor, J.G. and Daniel, T.C., 1984. **Prescribed fire: Public education and perception.** Journal of Forestry 82:361-365.
Overall, the respondents to a survey conducted in Tucson, Arizona, supported prescribed burning.

1705 Wakimoto, R.H., 1984. **Current fire management research in Glacier National Park.** Western Wildlands 10(3):20-25.

1706 Wischnofske, M.G. and Anderson, D.W., 1983. **The natural role of fire in Wenatchee Valley.** U.S. Forest Service, Pacific Northwest Region. 19pp. + app.
"This paper is the result of a Fire History Study in Wenatchee Valley in 1983. The purposes of this study were to determine the natural frequency of fire and to recommend uses for prescribed fire in the habitats observed." (p.1)

1707 Zwolinski, M.J., Cortner, H.J., Carpenter, E.H. and Taylor, J.G., 1983. **Public support for fire management policies in recreational land management.** University of Arizona, School of Renewable Natural Resources. 160pp.

Study objectives: 1) "Describe the history of wildland fire policies associated with recreation land management by two federal agencies near Tucson, Arizona, (2) determine the level of public knowledge regarding fire, fire ecology, and manangement policies, and (3) develop recommendations as to methodologies land managers can use to improve public knowledge about fire management." (p.6)

PRODUCTION OF FOREST GOODS AND SERVICES

OUTDOOR RECREATION - TOURISM

1708 Anderson, D.H. and Foster, D.I., 1985. **Perceived change in a river environment and its effect on visitor use: A case study of Ozark National Scenic Riverways.** Western Wildlands 11(2):21-24.

1709 Arizona Outdoor Recreation Coordinating Commission, 1983. **Arizona Statewide Comprehensive Outdoor Recreation Plan.** 152pp. + Technical Document, variously paged.

1710 Ballman, G., 1984. **Tourism as an economic stimulus in northeast Minnesota.** University of Minnesota, Agricultural Extension Service, Northeast Minnesota Task Force. 10pp.
The author concludes that "several alternative investments can be made in northeast Minnesota's tourism system to stimulate economic activity. But marketing investments...are likely to yield the greatest payoff in the shortest amount of time." (p.9)

1711 Benidickson, J., 1982. **Northern Ontario's tourist frontier.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.155-174.

1712 Brown, T.C. and Daniel, T.C., 1984. **Modeling forest scenic beauty: Concepts and application to ponderosa pine.** U.S. For. Serv., Res. Pap. RM-256. 35pp.

1713 Brown, T.L., 1984. **Considerations in developing a recreation enterprise.** Cornell University, Dept. of Nat. Resources, Conservation Circular 22(2):1-4.
Advice to rural landowners.

1714 Brown, T.L., 1984. **Considerations in implementing a county lodging tax to promote tourism.** Cornell Univ., Dept. of Nat. Res., Conservation Circular 22(3):1-7.

1715 Brown, W.G., Sorhus, C., Chou-Yang, B.-L., and Richards, J.A., 1983. **Using individual observations to estimate recreation demand funtions: A caution.** American Journal of Agricultural Economics. 65:154-157.

1716 Brynaert, K.A., 1985. **Recreational and cultural use of the forests.** Forestry Chronicle 61:166-167.

1717 Clark, R.N., Gibbons, D.R., and Pauley, G.B., 1985. **Influence of forest and rangeland management on anadromous fish habitat in western North America: 10. Influences of recreation.** U.S. Forest Service, Gen. Tech. Rep. PNW-178. 31pp.
"This report describes interrelationships between recreation and fisheries. Recreation issues affecting either the supply of habitat for anadromous fish production and use, or the demand for the fisheries are also discussed." (abstract)

1718 Clawson, M., 1984. **Effective acreage for outdoor recreation.** Resources 78:2-7.
Clawson contends that "gross or surface acres are a poor measure of land area actually usable for outdoor recreation...." He proposes that a unit of measure called "Effective Acreage Equivalent" be used to measure acres that are effectively available for outdoor recreation. (p.2)

1719 Clawson, M., 1984. **Outdoor recreation: 25 years of history; 25 years of projection.** In: Proceedings Twenty-Five Year Anniversary Symposium School of Forestry and Wildlife Resources, Virginia Polytechnic Institute and State University, Blacksburg. pp.47-60.

1720 Clawson, M., 1985. **Outdoor recreation: Twenty-five years of history, twenty-five years of projection.** Leisure Sciences 7:73-99.
"With all the difficulties and uncertainties of projections for the future, such projections are necessary for anticipating or forecasting outdoor recreation in a forest setting. General factors and general directions are more important than specific numbers." (p.74).

1721 Cordell, H.K. and Stanley-Saunders, B. 1983. **The private sector role in rural outdoor recreation in the United States: An annotated bibliography.** Chicago, CPL Bibliographies. CPL Bibliography no. 106. 118pp.

1722 Dalton, M.J., 1982. **Utah outdoor recreation expenditures.** Prepared for Utah Division of Parks and Recreation, Dept. of Natural Resources and Energy. Various pagings.
Cover title: "Outdoor recreation in Utah: The economic significance." "This report summarizes expenditures made for outdoor recreation during a one year period by Utah residents and nonresident vistors to the state." (p.3)

1723 Downie, B. and Peart, B., eds., 1982. **Parks and tourism: Progress or prostitution?** Conference proceedings, Victoria, B.C., 1982. Victoria, National and Provincial Parks Association of Canada. 76pp.

"An industry such as tourism, promotes the recreational use of our parks in order to generate economic benefits. This use contributes significantly to the imbalance of the preservation/use spectrum if planning and management have not been adequate." (p.5)

1724 Dustin, D. and McAvoy, L., 1985. **Interpretation as a management tool: A dissenting opinion.** Interpreter 16(2):18-20.

1725 Dwyer, W.O., Meyers, A.W., Brown, C., and Winborn, M., 1985. **Imaginal rehearsal training: A technique for improving simulation training for park law enforcement officers.** Journal of Park and Recreation Administration 3(2):61-66.

"The findings are discussed in terms of their potential value for increasing the effectiveness of role-play law enforcement training for park rangers." (p.61)

1726 Everitt, A.S., 1983. **A valuation of recreational benefits.** New Zealand Journal of Forestry 28:176-183.

The method used is a variant of the travel cost method. "This paper attempts to give management an objective valuation of recreational benefits." (p.176)

1727 Garcia, L.M., Dalton, P.Q., and Novak, K.M., 1985. **Estimating tourism/recreation linkages in a local economy for regional resource management.** University of Minnesota, Dept. of Agricultural and Applied Economics, Staff Paper Series P85-21. 20pp. + app.

A comprehensive tourism/recreation model is described. The background and development of such a model and its potential application to Northeastern Minnesota are discussed.

1728 Gibbs, K.C. and Reed, F.L., 1983. **Estimation and analysis of costs for developed recreation sites in U.S. Forest Service Region One.** Oregon State Univ., Forest Research Laboratory, Research Bulletin 42. 25pp.

1729 Godbey, G. 1984. **Demand for recreation in America.** Alexandria, Virginia, National Recreation and Park Association. Quest for Quality Series no.1. 29pp.

1730 Graefe, A.R., Vaske, J.J., and Kuss, F.R., 1984. **Resolved issues and remaining questions about social carrying**

capacity. Leisure Sciences 6:497-507.

1731 Graefe, A.R., Vaske, J.J. and Kuss, F.R., 1984. **Social carrying capacity: An integration and synthesis of twenty years of research.** Leisure Sciences 6:395-431.

1732 Griest, D.L. and Mullins, G.W., 1984. **Managing conflict: A process for increasing use of interpretation as a management tool.** Journal of Interpretation 9(1):19-31.

1733 Gundermann, E., 1984. **Setting priorities for landscape and forest management through non-market techniques.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.21-33.
"By the example of the recreational activity swimming, a method is described which applies a combination of checklists, ranking orders and evaluation matrices. Then procedures for setting priorities are discussed." (p.31)

1734 Hartmann, L.A. and Cordell, H.K., 1984. **Trend tracking and forecasting recreation demand and consumption in the United States.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.96-111.
"This paper focuses on one aspect of the information need for outdoor recreation decision making-improvement of recreation participation modeling for future forecasting." (p.96)

1735 Heywood, J.L., 1985. **Large recreation group and party size limits.** Journal of Park and Recreation Administration 3(2):36-44.
"A conceptual orientation to recreation groups and group sizes is needed so that a policy framework for managing group use can be developed." (p.36)

1736 Hof, J.G. and Loomis, J.B., 1983. **A recreation optimization model based on the travel cost method.** Western Journal of Agricultural Economics 8:76-85.

1737 How, D., 1982. **The recreational value of forests.** Australian Parks and Recreation Feb. 1982. pp.53-57.
Describes a method for assessing the recreation potential of forests.

1738 Kenner, B. and McCool, S.F., 1985. **Thinning and scenic attractiveness in second-growth forests: A preliminary assessment.** Montana Forest and Conservation Expt. Station,

Research Note 22. 4pp.

Test results indicate that "thinning, in the intensities studied, does have implications for scenic beauty perceptions." Thinning "may actually enhance viewer perceptions of the forest stand..." (p.3)

1739 King, D.A. and Hof, J.G., 1985. **Experiential commodity definition in recreation travel cost models.** Forest Science 31:519-529.

Results of this study "indicate that experiential definition of the recreation commodity in travel demand analysis may not be important in terms of estimating the value of an existing site under a given pattern of experiences." (p.526)

1740 Koch, N.E., 1984. **Skovenes friluftsfunktion i Danmark. III. del. Anvendelsen af skovene, lokalt betragtet. (Forest recreation in Denmark. Part III: The use of the forests considered locally)** Det Forstlige Forsogsvaesen i Danmark 39(2):121-362.

(In Danish, English summary). "This report is the third part of the results from the project 'Forest and Folk'; A research project aimed at producing a better basis for decisions in the field of forest recreation." "The purpose of part III is to document the results of data collections...." (p.281)

1741 Kroon, H., 1984. **Methodological notes on the measurement of recreative attractiveness of forests.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.34-44.

1742 Litton, R.B., Jr., 1984. **Visual vulnerability of the landscape: Control of visual quality.** U.S. For. Serv., Research Paper WO-39. 35pp.

"Visual vulnerability is defined as the landscape's inherent resistance or susceptibility to degrading visual impacts." (p.35)

1743 Marsh, J. and Wall, G., 1982. **Themes in the investigation of the evolution of outdoor recreation.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.1-12.

1744 Marsh, J.S., 1982. **The evolution of recreation in Glacier National Park, British Columbia, 1880 to present.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.62-76.

1745 McCusker, P., 1984. **A new interpretation of forest recreation management.** Irish Forestry 41:59-65.

Because most visitors to Irish forests come from cities or towns, there is a need for amenity developments that are relevant to major problems confronting urban society. (p.59)

1746 Milon, J.W., 1985. **Site characteristics and revealed preferences for outdoor recreation.** Northeastern Journal of Agricultural and Resource Economics 14(1):14-17.

1747 Moffatt, C.A., 1982. **The development of tourism in Nova Scotia.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.123-132.

1748 Murphy, W. and Gardiner, J.J., 1984. **Measuring values in recreation: Six different approaches.** Irish Forestry 41(1):36-44.

"The recreation manager and those responsible for resource allocation, both financial and natural must be able to examine proposed recreation projects using cost benefit approaches." (p.36)

1749 Oliver, S.S., Roggenbuck, J.W., and Watson, A.E., 1985. **Education to reduce impacts in forest campgrounds.** Journal of Forestry 83:234-236.

"The findings of this study suggest that education may significantly reduce destructive behavior in...forest campgrounds." (p.235)

1750 Reiling, S.D. and Anderson, M.W., 1983. **Estimation of the cost of providing publicly-supported outdoor recreational facilities in Maine.** Maine Agr. Expt. Sta., Bulletin 793. 92pp.

1751 Rosenthal, D.H. and Brown, T.C., 1985. **Comparability of market prices and consumer surplus for resource allocation decisions.** Journal of Forestry 83:105-109.

"When a consistent theoretical structure is used for assessing the economic worth of different resources, monetary values assigned to nonmarket outputs from forested lands (such as recreation) are comparable to market prices for marketed outputs." (p.105)

1752 Rosenthal, D.H. et al., 1984. **The travel cost model: Concepts and applications.** U.S. For.Serv., Gen. Tech. Rep. RM-109. 10pp.

The TCM "estimates the demand and supply curves for a recreation site in a manner commensurate with methods used

for other resources." (abstract)

1753 Rosenthal, D.H., Loomis, J.B. and Peterson, G.L., 1984. **Pricing for efficiency and revenue in public recreation areas.** Journal of Leisure Research 16:195-208.
"Microeconomic theory is used to consider issues related to setting a price for the use of publicly provided outdoor recreation...Limiting recreation use by pricing is more economically efficient than other rationing schemes." (p.195)

1754 Row, C., 1984. **Problems in integrating recreation uses in multiple use management in the United States Forest Service.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.146-162.
The author examines "the practical problems of integrating on-site uses into commodity production in long-range planning on U.S. National Forests." (p.146)

1755 Sadler, B., 1982. **The impact of tourism on parks.** In: Downie, B. and Peart, B., eds. Parks and tourism: Progress or prostitution? pp.58-60.

1756 Schabel, H.G. and Dwyer, J.F., 1985. **Institutional aspects of forest recreation resource management in West Germany.** Landscape Journal 4(1):1-6.
"In order to provide recreation for a large urban population from a very limited resource base, West Germany has developed institutions that differ markedly from those in the United States." (p.1)

1757 Schomaker, J.H. and Knopf, R.C., 1985. **Recreation management on rivers: The consumers' reaction.** Western Wildlands 11(2):17-20.
The authors "highlight the past tensions in wildland recreation management as a background for the issues that need to be addressed on our nation's rivers." (p.17)

1758 Schreyer, R., 1985. **Managing rivers in a regional context: Necessary concept or impractical idea?** Western Wildlands 11(2):11-16.

1759 Schreyer, R., 1984. **Social dimensions of carrying capacity: An overview.** Leisure Sciences 6:387-393.
"A major theme underlying the unfolding of arguments and concerns about carrying capacity is that it, more than any other issue, has served as a focal point for debating and/or demonstrating the relevance of social science applications to recreation situations in the real world." (p.387)

1760 Searle, M.S. and Jackson, E.L., 1985. **Recreation non-participation and barriers to participation: Considerations for the management of recreation delivery systems.** Journal of Park and Recreation Administration 3(2):23-35.

In this era of cutbacks and reduced service, some individuals are being excluded from participation in recreation either by design or by accident. A survey was conducted by Alberta Recreation and Parks. Based on the results of this research, considerations for managing recreation services are presented.

1761 Seymour, W.R., 1984. **The cooperative approach to outdoor recreation.** U.S. Agric. Coop. Serv., Coop. Info. Rep. 32. 13pp.

"This publication is intended to guide persons interested in organizing a recreation cooperative." (Preface)

1762 Shelby, B., 1984. **Estimating monetary values for use permits on western rivers.** Journal of Forestry 82:107-109.

Sales of outfitting businesses were used to estimate the value of river running permits. "Information from four western rivers suggests that access rights have considerable monetary value...." (p.107)

1763 South Australia Dept. of Recreation and Sport, 1983. **Recreation open space planning in South Australia: Report of the Inter-Departmental Working Party to the Minister of Recreation and Sport.** South Australia Dept. of Recreation and Sport. 31pp.

1764 Stankey, G.H. and McCool, S.F., 1984. **Carrying capacity in recreational settings: Evolution, appraisal, and application.** Leisure Sciences 6:453-473.

1765 Stauty, D.M., Borchert, L.L. and Seybolt, J.W., 1985. **Cross-country skier trends and profiles.** University of Minnesota-Duluth, School of Business and Economics, Bureau of Business and Economic Research, Working Paper no.85-17. 43pp.

Reports on a survey of cross-country skiers in Duluth. Examines "trends and skier profiles, which may be used by park and recreation departments, resorts, and others in meeting the needs and expectations of skiers." (p.2)

1766 Stynes, D.J. and Peterson, G.L., 1984. **A review of logit models with implications for modeling recreation choices.** Journal of Leisure Research 16:295-310.

"The use of logit models to predict recreation activity and site choices is increasing."

1767 Todd, H.R., 1984. **Report on the quality of tourism marketing and promotion done at the regional level.** Minnesota Office of Tourism. Var. pag.

1768 U.S. Congress, 98th, 1st Session, 1983. **National Outdoor Recreation Resources Review Act of 1983.** Hearing before the Subcommittee on Public Lands...of the Committee on Energy and Natural Resources, U.S. Senate...on S.1090. 355pp.

"A bill to establish a National Outdoor Recreation Resources Review Commission to study and recommend appropriate policies and activities for government agencies at the federal, state, and local levels and for the private sector, to assure the continued availability of quality outdoor recreation experiences in America to the year 2000...."

1769 U.S. Congress, 98th, 1st Session, 1984. **National Outdoor Recreation Resources Review Commission.** Hearing before the Committee on Governmental Affairs U.S. Senate...to establish a National Outdoor Recreation Resources Review Commission to study and recommend appropriate policies... June 28, 1983. 305 pp.

1770 Uysal, M. and Crompton, J.L., 1985. **An overview of approaches used to forecast tourism demand.** Journal of Travel Research 23(4):7-15.

1771 Vaughan, W.J. and Russell, C.S., 1984. **The role of recreation resource availability variables in recreation participation analysis.** Journal of Environmental Management 19:185-196.

1772 Wall, G. and Wallis, R., 1982. **Camping for fun: A brief history of camping in North America.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.341-353.

1773 Wall, G. and Marsh, J., eds., 1982. **Recreational land use: Perspectives on its evolution in Canada.** Ottawa, Carleton University Press. 436pp.

1774 Wall, G., 1982. **Changing views of the land as a recreational resource.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.15-25.

"The purpose of this paper is to describe changing attitudes to the lands and resources of Canada...some general observations are made concerning changing attitudes to nature

and the environment." (p.15)

1775 Wall, G., 1982. **Outdoor recreation and the Canadian identity.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.419-434.

1776 Wall, G., 1982. **The fluctuating fortunes of water-based recreational places.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.239-254.

1777 Walsh, R.G., Radulaski, O., and Lee, L.C., 1984. **Value of hiking and cross-country skiing in roaded and nonroaded areas of a national forest.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.176-187.

1778 Walsh, R.G., Lee, L.C., Radulaski, O., and Elsner, G.H., 1984. **Value of standard service at campgrounds in a national forest.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.163-175.
Reports on a study that "measured the effect of standard vs. below standard service on willingness to pay travel costs to camping sites in two National Forests in Colorado, holding constant the effects of the natural environment...and congestion." (p.174)

1779 West, P.C., 1984. **Status differences and interpersonal influence in the adoption of outdoor recreation activities.** Journal of Leisure Research 16:350-354.

1780 Wolfe, R.I., 1982. **The changing patterns of tourism in Ontario.** In: Wall, G. and Marsh, J., eds. Recreational land use: perspectives on its evolution in Canada. pp.133-138.

1781 Wood, T.J., 1985. **Trends in the camping industry.** University of Minnesota, Duluth, School of Business and Economics, Bureau of Business and Economic Research, Working Paper no. 85-15. 33pp.

WILDERNESS MANAGEMENT - NATURE

CONSERVATION - NATIONAL PARKS

1782 Allin, C.W., 1985. **Hidden agendas in wilderness management.** Parks and Recreation 20(5):62-65.

1783 Arthur Young McClelland Moores & Co., 1984. **Review of the economic efficiency of National Park Authorities.** Cheltenham, U.K., Countryside Commission. CCP 160. 56pp.
A review prepared by management consultants for the Countryside Commission, the central government agency with responsibilities for the 10 parks of England and Wales.

1784 Baker, J., 1985. **Winning (and losing) the West.** Sierra 70(3):56-60.
Subtitle: The perplexing saga of the Bureau of Land Management's wilderness review.

1785 Battin, J.G. and Nelson, J.G., 1982. **Recreation and conservation: The struggle for balance in Point Pelee National Park, 1918-1978.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.77-101.

1786 Bratton, S.P., 1985. **National park management and values.** Environmental Ethics 7:117-133.
"The purpose of this article is to look at some of the major trends and concepts that have influenced park management and to present some contemporary questions concerning the relationship between ecology and values in decision making concerning park resources." (p.117)

1787 Burch, W.R., Jr., 1984. **Much ado about nothing--some reflections on the wider and wilder implications of social carrying capacity.** Leisure Sciences 6:487-496.

1788 Cregan, M., 1984. **Returning to nature. Part 1: Educating the eye.** Irish Forestry 41:77-83.
Prior to the 18th century, unproductive land was considered unsightly. Since the 18th century, wild scenery has been admired. This article traces the emergence of the taste for scenery. (p.77)

1789 Foresta, R.A., 1984. **America's national parks and their keepers.** Washington, D.C., Resources for the Future, Inc. 382pp.

"This book is a study of an expanding National Park System; it is also a study of the bureaucracy that shaped it, how it grew, and the stresses it faces."

1790 Fox, R., 1985. **Integration of wilderness values in forestry and wildlife management.** Forestry Chronicle 61:163-165.
This paper "addresses the problem of protecting wilderness values from overuse by recreationists, and the need to manage wilderness areas to avoid such overuse." (p.163)

1791 Franklin, K. and Schaeffer, N., 1983. **Duel for the Dunes: Land use conflict on the shores of Lake Michigan.** Urbana, Univ. of Illinois Press. 278pp.

1792 Frome, M., 1984. **Playgrounds or preserves: Park tourism as big business.** National Parks 58(11/12):16-17.
National parks are the most popular tourist destination in America. "The very popularity of the parks...could prove to be their downfall."

1793 Frome, M., 1984. **The twentieth anniversary of the Wilderness Act: Still in pursuit of the promised land.** University of California, Dept. of Forestry and Resource Management, 24th Horace M. Albright Conservation Lectureship. 12pp.

1794 Frome, M., 1984. **Twentieth anniversary of the Wilderness Act: Heroes who made it happen--heroes in the making.** Colorado State Univ., College of Forestry and Natural Resources, 1984 Natural Resources Days Keynote Address. 10pp.

1795 Geoghegan, T., 1985. **Public participation and managed areas in the Caribbean.** Parks 10(1):12-14.
"Intensive regulation and enforcement...are financially impossible in the Eastern Caribbean. Conservation depends entirely on the public will...." (p.13)

1796 Hammond, J.L., 1985. **Wilderness and heritage values.** Environmental Ethics 7:165-170.

1797 Harper, J.L., 1982. **Mineral King: Public concern with government policy.** Arcata, Calif., Pacifica Publishing Co. 223pp.

1798 Hull, R.B., IV, Buhyoff, G.J. and Daniel, T.C., 1984. **Measurement of scenic beauty: The law of comparative judgement and scenic beauty estimation procedures.** Forest

Science 30:1084-1096.

1799 Kaplan R., 1984. **Wilderness perception and psychological benefits: An analysis of a continuing program.** Leisure Sciences 6:271-290.

Discussion of the results of research "focusing on the impact of an intense nature experience on people's lives" (p.271)

1800 Killan, G., 1982. **Mowat and a park policy for Niagara Falls, 1873-1887.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.220-238.

In 1887 Oliver Mowat created Ontario's first publicly-owned park at Niagara Falls.

1801 Lee, M.E., Field, D.R. and Schwarzkopf, K., 1984. **People, human behavior and animals in parks and preserves: A working bibliography.** U.S. National Park Service, Coop. Park Studies Unit, College of Forestry, Oregon State Univ. 35pp.

"The focus of this bibliography is on the nonconsumptive relationship between people and animals, concentrating on interactions occurring in parks and preserves between wildlife and recreationists." (p.4)

1802 Maruyama, H., 1984. **A study on the establishment of Nikko National Park--its backgrounds viewed from social and economical history.** Kyoto University Forests Bulletin 56:81-97. (In Japanese with Eng. summ.)

1803 McAvoy, L., Dustin, D., Rankin, J. and Frakt, A., 1985. **Wilderness and legal liability: Guidelines for resource managers and program leaders.** Journal of Park and Recreation Administration 3:41-49.

The authors address "the issue of legal liability as it pertains to responsibility for recreationists' injuries on wilderness outings." (p.41)

1804 McAvoy, L.H. and Hamborg, R., 1984. **Wilderness visitor knowledge of regulations: A comparison of visitor contact methods.** Journal of Interpretation 9(1):1-10.

"This study compares effectiveness of wilderness visitor contact methods and examines visitors' knowledge of regulations within the Boundary Waters Canoe Area Wilderness...." (p.1)

1805 McCloskey, M., 1984. **World Parks.** Sierra 69(6):36-42.

"The amount of land that the nations of the world have set aside as national parks has never been greater, but the threats to such areas are growing too." (p.36)

1806 Molloy, L.F., 1983. **Wilderness recreation in New Zealand.** Proceedings of the FMC 50th Jubilee Conference on Wilderness, 1981. Wellington, Federated Mountain Clubs of N.Z. (Inc.) 142pp.

1807 Morrison, K., 1982. **The evolution of the Ontario provincial park system.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.102-121.

1808 Nash, R., 1984. **Path to preservation.** Wilderness 48(165):5-11.
Traces events leading up to and following passage of the Wilderness Act in 1964.

1809 Nawaz, M., 1985. **National parks and reserves for Pakistan's North West Frontier Province.** Parks 10(1):6-7.
"With the wealth of wildlife and forests, and the superb scenery...the future national parks of the North West Frontier Province could be among the finest in the world." (p.7)

1810 Nelson, J.G., 1982. **Canada's national parks: Past, present and future.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.41-61.

1811 Oregon State Highway Div., Planning Sect., Economic Service Unit, 1983. **Oregon State parks cost responsibility study 1983.** Prepared for Parks and Recreation Div., Oregon Dept. of Transportation. Various pagings.
"This study is somewhat unique in that it deals with an entire state park system and endeavors to fix the portions of system costs to be paid by system users and by the general public." (p.i)

1812 Phillips, A., 1985. **Socio-economic development in the "national parks" of England and Wales.** Parks 10(1):1-5.
The words "national parks" are in quotes to distinguish them from the true national parks which meet the IUCN Category II criteria. (p.1)

1813 Purcell, A.T. and Lamb, R.J., 1984. **Landscape perception: An examination and empirical investigation of two central issues in the area.** Journal of Environmental Management 19:31-63.

1814 Rolston, H., III, 1985. **Valuing wildlands.** Environmental Ethics 7:23-48.
Twelve types of value carried by wildlands are

discussed: economic, life support, recreational, scientific, genetic diversity, aesthetic, cultural symbolization, historical, character building, therapeutic, religious, and intrinsic. (p.23)

1815 Roth, D., 1984. **The national forests and the campaign for wilderness legislation.** Journal of Forest History 28:112-125.
The history of the Wilderness Act of 1964--"largely a history of national forest wilderness politics." (p.112)

1816 Roth, D.M., 1984. **The wilderness movement and the national forests: 1964-1980.** U.S. Forest Service, FS 391. 70pp.

1817 Scace, R.C., 1982. **Banff Townsite: An historical-geographical view of urban development in a Canadian national park.** In: Wall, G. and Marsh, J., eds. Recreational land use: Perspectives on its evolution in Canada. pp.203-219.
"This paper seeks to describe the establishment and development of Banff townsite in Banff National Park and briefly its relationship with the national park idea." (p.203)

1818 Shelby, B. and Heberlein, T.A., 1984. **A conceptual framework for carrying capacity determination.** Leisure Sciences 6:433-451.

1819 Shelby, B. and Harris, R., 1985. **Comparing methods for determining visitor evaluations of ecological impacts: Site visits, photographs, and written descriptions.** Journal of Leisure Research 17:57-67.
"This study applies and extends work on landscape assessment by comparing three methods for gathering evaluative data from users of wilderness campsites." (p.57)

1820 Stankey, G.H. et al., 1985. **The Limits of Acceptable Change (LAC) system for wilderness planning.** U.S. For. Serv., Gen. Tech. Rep. INT-176. 37pp.

1821 Stankey, G.H., McCool, S.F. and Stokes, G.L., 1984. **Limits of acceptable change: A new framework for managing the Bob Marshall Wilderness Complex.** Western Wildlands 10(3):33-37.
"Limits of acceptable change(LAC)--represents a framework within which decisions can be made about the kinds of conditions that will be permitted to occur in an area." (p.34)

1822 Stewart, A.W., 1985. **Wilderness protection: A bibliographic review.** Monticello, IL, Vance Bibliographies. Public Administration Series: Bibliography P-1642. 13pp.

1823 Stroup, R., Baden, J. and Shaw, J., 1985. **Wilderness Endowment Boards: Alternative to wilderness disputes.** Forest Planning 6(3):8-10, 21.

Under the authors' proposed system, "private Wilderness Endowment Boards would manage existing wilderness areas as 'trusts' or 'endowments' for the public." (p.9)

1824 Walker, J.L., 1984. **Tall trees, people, and politics: The opportunity costs of the Redwood National Park.** Contemporary Policy Issues 5:22-29.

This paper analyzes the establishment and expansion of Redwood National Park as a "public investment decision." (p.22)

1825 Walsh, R.G., Gillman, R.A. and Loomis, J.B., 1982. **Wilderness resource economics: Recreation use and preservation values.** Denver, American Wilderness Alliance. 107pp.

"The purpose of this study was to develop economic measures of the public benefit from wilderness resources. Procedures for estimating the recreation use and preservation value of unique environmental resources were developed and applied to the problem of how much wilderness to protect in Colorado and the United States." (p.vii)

1826 Wilderness Society, 1984. **Toward the twenty-first century: A Wilderness Society agenda for the National Wilderness Preservation System.** Wilderness 48(165):34-39.

A map of the National Wilderness Preservation System is included.

1827 Zaslowsky, D., 1984. **Managing the dream: Recreation, contradiction, and the pressures of enchantment.** Wilderness 48(165):27-33.

"An ironic possibility is that the granting of wilderness status stimulates excessive use...." (p.27) "Hope for the wilderness lies in management that does more than twiddle with numbers and visitor statistics." (p.33)

RANGE MANAGEMENT

1828 Bartolome, J.W., 1984. **Integrating forestry and grazing in California.** In: Papastavrou, A.C. et al. Policy analysis for forestry development. 1:511-520.
The author describes the available forest and range resources and the history of land use and regulation in California. He outlines the range management principles which apply to combined timber and forage production.

1829 Blatz, C.V., 1984. **Ethical issues in private and public ranch land management and ownership.** Agriculture and Human Values 1(4):3-15.

1830 Ferguson, D. and Ferguson, N., 1983. **Sacred cows at the public trough.** Bend, Oregon. Maverick Publications. 250pp.
The authors object to the use of the public lands in the west as "mere pastures for livestock," and point out "the adverse consequences of grazing."

1831 Fischer, H., 1985. **A new problem in the Old West: Grazing on the Charles M. Russell Wildlife Refuge.** Western Wildlands 11(1):8-11.
At issue is whether the CMR will be managed primarily for the benefit of wildlife or primarily for the benefit of the 87 permittees who have grazing leases on the refuge. (p.8)

1832 Lacey, J.R., Wight, J.R. and Workman, J.P., 1985. **Investment rationale for range improvement practices in eastern Montana.** Journal of Range Management 38:2-6.

1833 Lambert, D.K., 1984. **The economics of range investments: Public and private perspectives.** In: Range watersheds, riparian zones and economics: Interrelationships in management and use. Proceedings 1984 Pacific Northwest Range Management Short Course. Corvallis, Oregon State University. pp.86-98.

1834 Lundgren, G.K., Conner, J.R. and Pearson, H.A., 1984. **An economic analysis of five forest-grazing management systems in the southeastern United States.** Texas Agr. Expt. Station, MP 1551. 8pp.

1835 Lyon, L.J., 1985. **Elk and cattle on the national forests: A**

simple question of allocation...or a complex management problem? Western Wildlands 11(1):16-19.

1836 Papanastasis, V.P., 1984. **Forestry and livestock grazing: A policy perspective.** In: Papastavrou, A.C. et al. Policy analysis for forestry development. 1:479-488.

1837 Powell, J., Miller, M.E., Leftwich, T. and Rodgers, J.D., 1984. **Monitoring Wyoming public rangelands.** University of Wyoming, Agricultural Extension Service, B-832. 20pp.

1838 Wagstaff, F.J., 1983. **Evaluating proposed improvements of public rangelands.** U.S. For. Serv., Gen. Tech. Rep. INT-150. 4pp.

"Basic economic concepts and analysis processes relevant to analysis of proposed range improvement projects are presented."

1839 White, L.D., Tiedeman, J.A. and Busby, F.E., 1985. **Rangelands of the world--developing countries.** Renewable Resources Journal 3(2):12-17.

URBAN FORESTRY

1840 Bartsch, D., Hook, J., Prince, E., and Schrom. D. 1985. **Using computer simulation to plan a sustained-yield urban forest.** Journal of Forestry 83-372-375.

Reports on "a program to develop benefit-based standards for management of street trees in the city of Palo Alto, California." (p.372)

1841 Dwyer, J.F., Peterson, G.L., and Darragh, A.J., 1983. **Estimating the value of urban forests using the travel cost method.** Journal of Arboriculture 9:182-185.

"The willingness of users to pay for the use of urban forest areas is suggested as one useful measure of value to guide urban forestry programs." (p.182)

1842 Grey, G.W., 1984. **Urban forestry in America: The cause.** Arboricultural Journal 8:317-319.

WILDLIFE AND FISH

1843 Demarchi, R.A., 1985. **What the wildlife manager expects from foresters--new initiatives in forestry and wildlife management in Canada.** Forestry Chronicle 61:137-139.

1844 Hall, C. and Dearden, P., 1984. **The impact of "non-consumptive" recreation on wildlife: An annotated bibliography.** Monticello, Illinois, Vance Bibliographies. Public Administration Series: Bibliography P-1458. 45pp.

1845 Hawaii Division of Forestry and Wildlife, 1984. **Hawaii wildlife plan.** Honolulu, Hawaii Dept. of Land and Natural Resources, Division of Forestry and Wildlife. 113pp.
This plan "is intended to provide an integrated strategy towards solving the most critical wildlife problems.... Multiple-use will be a guiding concept except where some overriding consideration (such as protecting an endangered species) dictates otherwise." (p.2)

1846 Huppert, D.D., Fight, R.D., and Everest, F.H., 1985. **Influence of forest and rangeland management on anadromous fish habitat in western North America: 14. Economic considerations.** U.S. Forest Service, Gen. Tech. Rep. PNW-181. 27pp.
"This paper addresses the physical, political, and economic characteristics of western anadromous fisheries, and discusses biological and economic concepts for evaluating and managing fishery resources." (preface)

1847 Hynard, P.P., 1985. **Integrating foresry and wildlife management: The view of the private land timber resource user.** Forestry Chronicle 61:156-158.
The purpose of the paper is "to represent the timber resource user's view on the integration of foresty and wildlife management on private lands." (p.156)

1848 Jonkel, C., 1985. **The Blackfeet Reservation: Dilemmas in range and grizzly bear management.** Western Wildlands 11(1):25-27.
"Pressing management questions remain unanswered because of jurisdictional confusion and distrust." (p.27)

1849 Long, P.A. and Whelan, J., 1984. **The economics and management of the forest habitat for pheasants.** Irish Forestry 41:84-98.
The author concludes that in areas where the intensity of forest management might allow it, it is theoretically possible to combine pheasant hunting and forest management

while still making a profit from both enterprises. (p.97)

1850 Salwasser, H., 1985. **Integrating wildlife into the managed forest.** Forestry Chronicle 61:146-149.

WOOD PRODUCTION

1851 Allen, J.F., 1985. **The economic importance of wood energy in Georgia.** In: Saucier, J.R., ed. Proc. Southern Forest Biomass Workshop, 1984. U.S. Forest Service, Southeastern Forest Experiment Station. pp.115-117.

1852 Bethel, J.S., 1982. **Processes of optimising and diversifying the material output from a forest.** In: Srivastava, P.B.L. et al., eds. Tropical forests--source of energy through optimisation and diversification. pp.91-100.

While recognizing the importance of non-timber values in the forest, "this paper...concentrates upon an analysis of the forest as a source of wood-based material." (p.91)

1853 Bludovsky, Z., 1984. **Economic motives for the intensification of Czechoslovak forestry.** In: Kaiser, F. et al., comp. Proceedings for economic value analysis of multiple-use forestry. pp.45-54.

1854 Bludovsky, Z., 1984. **Economic motives for the intensification of Czechoslovak forestry.** In: Papastavrou, A.C. Policy analysis for forestry development 2:255-262.

1855 Bullard, S.H. and Klemperer, W.D., 1984. **A case for heuristic optimization methods in forestry.** Resource Management and Optimization 3:139-147.

Forestry problems are a potential field for applying heuristic or inexact solution techniques. Reasons for using heuristics in forestry decisions are presented, and potential areas of application are summarized.

1856 Carlisle, A. and Chatarpaul, L., 1984. **Intensive forestry: Some socioeconomic and environmental concerns.** Petawawa National Forestry Institute, Information Report PI-X-43. 40pp.

"The increasing use of intensive forest management and utilization techniques, particularly the use of short rotations and whole tree harvesting will make increasing demands on the soil...Forestry schools must place greater emphasis on soil science and research into forest processess to provide the basic information needed to assess environmental effects." (p.v)

1857 Clutter, J.L., et al., 1983. **Timber management: A quantitative approach.** New York, Wiley. 333pp.

1858 Couto, L. and Nautiyal, J.C., 1984. **A nutrient-related time-dependent timber production function for Eucalyptus grandis Hill ex Maiden in south-eastern Brazil.** Australian Forest Research 14:37-47.

"The timber production function analysis as developed here, allows use of economic reasoning for deciding on the optimal level of nutrients in eucalypt management." (p.46)

1859 Cubbage, F.W. and Saucier, J.R., 1985. **Hardwood fuelwood in North Georgia: Resources, utilization, and harvesting.** Georgia Forest Research Paper no.58. 10pp.

"This study examined the economics of utilizing the hardwood resource in the Georgia Mountains, particularly for fuelwood." (p.9)

1860 Eriksson, O. and Sallnas, O., 1984. **Models for the long-term development of forest and forest industry.** In: Papastavrou, A.C. Policy analysis for forestry development 2:359-365.

1861 Fins, L. and Moore, J.A., 1984. **Economic analysis of a tree improvement program for western larch.** Journal of Forestry 82:675-679.

1862 Godman, R.M., 1985. **Economic maturity of sugar maple.** U.S. For. Serv., North Central For. Exp. Sta., Northern Hardwood Notes 6.01. 1p.

1863 Graham, G.M. and Betters, D.R., 1985. **A simulation model for economic analysis of timber/forage production alternatives in Rocky Mountain aspen stands.** Forest Ecology and Management 10:313-321.

"Given harvest possibilities from timber yield tables and information concerning site characteristics, the model calculates the physical production level for timber and forage, and then uses these figures to make an economic analysis based on present net worth and financial maturity criteria." (p.313)

1864 Guldin, R.W., 1983. **Regeneration costs using container-grown southern pine seedlings.** U.S. For. Serv., Res. Pap. SO-187. 29pp.

Regeneration costs using container-grown loblolly and slash pine seedlings are compared with the costs of using bare-root stock. (Abstract)

1865 Johansson, P.-O. and Lofgren, K.G., 1984. **On socially optimal forest rotations: Faustmann versus Nautiyal and Fowler.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 25:1-5.

1866 Karppinen, H., 1985. **Hakkuumahdollisuuksien hyvaksikaytto**

yksityismetsaloilla (III) Keski-Suomen, Etelä-Pohjanmaan ja Vaasan piirimetsalautakuntien aluetta koskevia ennakkotietoja. Metsantutkimuslaitoksen Tiedonantoja 172. 64pp.

(In Finnish, English summary) Title of Eng. summ.: The use of allowable drain from private woodlots (III): Preliminary results concerning three Forestry Board Districs in western and central Finland.

1867 Lagnefeldt, H., 1984. **Datamodell for lonsamhetsbedomning av energiskog.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 31. 52pp. (in Swedish)

1868 Lewis, D.K., 1984. **Some economic considerations for tree improvement in the Great Plains.** In: Tree improvement in the Great Plains: Proceedings, 36th annual meeting, Forestry Committee, Great Plains Agricultural Council. Great Plains Agricultural Council Publication 112:189-195.

1869 Lindroth, S. and Akerblom, K., 1984. **Arealer for energiskogsbruk i Sverige. Areas for energy forestry in Sweden.** Sveriges Lantbruksuniversitet, Inst. for Skogstaxering, Rapport 36. 133pp. + maps.

(In Swedish, English summary) Presents the results of a project called "Inventory of Land for Energy Forestry," the object of which "was to determine the extent of areas for energy forestry (EF) in Sweden. Also the situation of these areas as well as the restrictions limiting their use for EF were to be determined." (p.5)

1870 Lofgren, K.G., 1985. **Effect on the socially optimal rotation period in forestry of biotechnological improvements of the growth function.** Forest Ecology and Management 10:233-249.

"The purpose of this paper is to analyse, at the stand level, how genetical or simply biotechnological progress affects the socially optimal rotation period and the value of forest land. The question has relevance for forest policy...." (p.233)

1871 Lofgren, K.G., 1984. **The effect on the socially optimal rotation period in forestry of biotechnological improvements of the growth function.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport nr.27. 22pp.

1872 Lohmander, P., 1984. **On the effect of price-variations on the expected optimal harvest year.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 29:1-13.

The author asks the question: "What will be the effect on the expected optimal harvest year in foresty if the timberprice is not a constant but a stochastic variable?" (p.2)

1873 Lohmander, P., 1984. **On the optimal choice of species under the influence of price risk.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport no.37. 14pp.
"Future prices are generally not known with certainty. The question of this paper is whether this fact has any implications for the optimal choice of species in forestry." (p.2)

1874 Major, M., 1985. **Aftermath of the Timber Relief Act.** Journal of Forestry 83:224-227.
The author argues that "the government has been called upon to protect businessmen from bearing the full consequences of the own inept judgements." (p.224)

1875 Mathur, R.S., Sagar, S.R. and Ansari, M.Y. 1984. **Economics of Eucalyptus plantation with special reference to Uttar Pradesh.** Indian Forester 110:97-109.
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1878 Moran, L.A. and Nautiyal, J.C., 1985. **Present and future feasibility of short-rotation energy farms in Ontario.** Forest Ecology and Management 10:323-338.
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1880 Pearse, P.H., 1985. **Obstacles to silviculture in Canada.**

Forestry Chronicle 61:91-96.
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1882 Rideout, D., 1985. **Managerial finance for silvicultural systems.** Canadian Journal of Forest Research 15:163-166.
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"This proceedings...provides a broad overview of the eastside pine type, its history, and present silvicultural practices." (p.ii)

1884 Rosson, J.F., Jr., 1984. **Southern pulpwood production, 1982.** U.S. For. Serv., Resource Bulletin SO-99. 23pp.

1885 Sakkas, G.A., 1983. **A cost-benefit analysis of irrigated poplar plantations in Greece.** Foret Mediterraneenne 5(1):57-62.
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diversification. pp.107-113.
Temperate zone forests produce much more timber per unit area than those in the tropics. Some suggestions for maximizing production from tropical forests are given.

1889 Spahr, M., 1985. **Mechanization of early first thinnings: Simulated performance of three thinning system concepts in Douglas-fir.** M.S. thesis, Swedish Univ. of Agr. Sci., College of For., Dept. of Operational Efficiency, 1983. Dept. of Operational Effiency, Intern Stencil no.7. 83pp. + app.
Includes a section on "Financial performance: Aspects of cost, earnings and investment."

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1891 Straka, T.J. and Hotvedt, J.E., 1985. **Economic aspects of the forest regeneration delay decision.** Southern Journal of Applied Forestry 9(2):91-94.
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1892 Sturos, J.B. and Miyata, E.S., 1984. **Mechanized red pine tree planting operation--a time study.** U.S. For. Serv., Research Note NC-315. 4pp.

1893 U.S. Congress, 98th, 2d Session, 1984. **Federal timber contract extensions.** Hearing before the Subcommittee on Forests, Family Farms, and Energy of the Committee on Agriculture, House of Representatives, 98th Congress, 2d Session, Feb. 28, 1984. 201pp.

1894 Wagstaff, F.J., 1984. **Economic considerations in use and management of gambel oak for fuelwood.** U.S. For. Serv., Gen. Tech. Rep. INT-165. 8pp.
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Southern experience and potential use in the Appalachians. Journal of Forestry 82:747-749.

"Increment contracts are long-term timber management contracts in which landowners receive regular payments based on the average annual growth of wood their land is capable of producing." (p.747)

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1897 Barber, R.L., 1984. **Model III: A sequential approach to joint optimization of the stand treatment and forest level harvest scheduling problem.** Ph.D. Thesis, Oregon State University. Ann Arbor, Mich., University Microfilms Int. 123pp.
"The objective of this study is to develop a workable solution to the problem of determining stand treatments and scheduling harvests in such a manner that they are optimal from both an individual timber stand and a total forest perspective." (p.2)

1898 Conway, S., 1982. **Logging practices: Principles of timber harvesting systems.** San Francisco, Miller Freeman, Rev. ed. 432pp.
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1899 Cubbage, F., 1982. **Economies of forest tract size in southern pine harvesting.** U.S. For.Serv., Research Paper SO-184. 27pp.
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1901 Hall, E.J., 1984. **An assessment of the costs and benefits of recovering logging residue for energy use.** Progress in Biomass Conversion 5:217-261.

1902 Hardie, I.W., Daberkow, J.N. and McConnell, K.E., 1984. **A timber harvesting model with variable rotation lengths.** Forest Sci. 30:511-523.

1903 Hoganson, H.M. and Rose, D.W., 1984. **A simulation approach for optimal timber management scheduling.** Forest Science 30:220-238.
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1904 Hrubes, R.J., 1984. **Environmentally related restrictions on the timber harvesting capability of a National Forest: A case**

study. Hilgardia 52:1-37.
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1905 Hultkrantz, L., 1984. **Optimal timber harvesting programmes in a model with adjustment costs.** In: Papastavrou, A.C. Policy analysis for forestry development 2:367-377.
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"The objective of the study was to determine a price for timber clearfelled prematurely to supply industrial wood such that the forest grower would be indifferent between accepting the early clearfelling at the calculated price, and continuing with his planned rotation and expected returns." (p.163)

1907 Jackson, T.P., Withycombe, R.P. and Keegan, C.E., III, 1984. **Estimating the costs of recovering forest residue in the northern Rocky Mountains.** Univ. of Montana, Bur. of Bus. and Econ. Res., in coop. with Intermountain For. and Range Expt. Station. 18pp. + appendices.
Describes a cost model which provides cost estimates for collecting and transporting forest residue in the northern Rocky Mountains. (p.1)

1908 Johnson, T.W., 1982. **Economics and costs: Selecting the right sized machinery for the job.** In: Logging Machinery Seminar, Rotorua, N.Z., 1982, Proc. pp.163-171.

1909 Johnston, R.A., 1982. **Economics and costs--essentials of costing formula.** In: Logging Machinery Seminar, Rotorua, N.Z., 1982, Proc. pp.134-142.

1910 Kellogg, L.D. and Olsen, E.D., 1984. **Increasing the productivity of a small yarder: Crew size, skidder swinging, hot thinning.** Oregon State Univ., Forest Research Lab., Research Bulletin 46. 44pp.
"Production rates and costs of harvesting smallwood were determined...."

1911 LeDoux, C.B., 1985. **When is hardwood cable logging economical?** Journal of Forestry 83:295-298.

1912 Lohmander, P., 1984. **Optimal harvesting with stochastic**

growth, generalizations and aspects on sensitivity to assumptions. Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 41. 16pp.

Among questions analyzed: "Should the present harvest be higher or lower when future growth is uncertain than when it is certain?" (p.1)

1913 Lucas, M.J., 1982. **R & M costs of logging machinery.** In: Logging Machinery Seminar, Rotorua, N.Z., 1982, Proc. pp.143-151.

1914 Pardo, R.D., 1985. **Logging and people: The social dimension of forest utilization agreements.** Unasylva 37(147):36-43.

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1915 Peaker, J.P. and Urbanski, R.E., 1984. **Forest harvest on federal lands 1976-81.** Petawawa National Forestry Institute, Info. Report PI-X-37. 14pp.

"Total harvest on federal lands has remained fairly constant between 1961 and 1981...but there is considerable variation in harvest within agencies." (p.1)

1916 Pierrot, V.C., 1984. **Thinning--manual or mechanical?** In: Robertson, D. and White, J. Harvesting the South's small tress. pp.38-45.

This paper investigates the relative advantages of mechanical vs. manual methods and evaluates the various mechanical systems with respect to the economic and silvicultural aspects.

1917 Robertson, D. and White, J., 1984. **Harvesting the South's small trees.** Madison, Forest Products Research Society. Proceedings 7340. 141pp.

Proceedings of a conference held in Biloxi, MS, April, 1983. D. Robertson was proceedings coordinator and J. White was editorial assistant.

1918 Sampson, G.R. and Ruppert, F.A., 1983. **Potential for economical recovery of fuel from land clearing residue in interior Alaska.** U.S. For. Serv., Research Paper PNW-308. 11pp.

1919 Sarles, R.L. and Whitenack, K.R., 1984. **Costs of logging thinnings and a clearcutting in Appalachia using a truck-mounted crane.** U.S. For. Serv., Research Paper NE-545. 9pp.

1920 Sibal, P.V., Bowyer, J.L., and Bradley, D.P., 1984. **Log merchandising in aspen.** Journal of Forestry 82:420-425.
"This article reports on a study of the potential for merchandising Minnesota aspen." (p.420).

1921 Sinclair, A.W.J., 1984. **The economics of utilizing decadent interior cedar and hemlock.** Forest Engineering Research Institute of Canada, Technical Report TR 59. 36 pp.
"The objective of this study was to determine harvesting and processing methods that could economically utilize the interior stands of decadent cedar-hemlock." (p.S-1).

1922 Smith, W.B. and Wardle, T.D., 1984. **Timber management opportunities for Nebraska 1983-1992.** U.S. For. Serv. Research Note NC-316. 6pp.
"Under the assumptions and management guides specified, 52 percent of Nebraska's commercial forest land would benefit from timber harvest...during the decade." (p.1)

1923 Tufts, D.M., 1984. **The effect of tree size, stand size, and ownership on cost and productivity.** In: Robertson, D. and White, J. Harvesting the South's small tress. pp.31-37.
"A cost index is used to compare production and costs for eight different logging systems in harvesting small-sized timber." (p.31)

1924 Vomocil, M.G., and Tedder, P.L., 1983. **Effects of projected yields and initial inventories on harvest schedules of Douglas-fir.** Oregon State Univ., Forest Research Lab., Research Bulletin 44. 26pp.

1925 Wickman, A., 1985. **Harvesting timber from private lands.** National Woodlands 8(2):5-7.

TIMBER SUPPLY

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"This paper discusses a system dynamics model which has been developed to analyse...the interaction between the demand for, and supply of, wood from New Zealand's plantation forests. The model contains forest area and forest growing stock sectors,planting policies, cutting policies, land purchasing/selling policies, a market sector, a forescasting sector, and a profit and cash flow sector."

1927 Edwards, H.R. and Thirgood, J.V., 1985. **Wood in Japan.** Forestry Chronicle 61(1):39-43.

Japanese supply and demand for timber "are analysed in relation to domestic and overseas suppliers and the wood processing industry." (p.39)

1928 Green, A.W., 1985. **North Idaho's private wood pile--going...going....** Western Wildlands 10(4):20-22.

1929 Haynes, R.W. and Adams, D.M., 1983. **Changing perceptions of the U.S. forest sector: Implications for the RPA timber assessment. American Journal of Agricultural Economics 65:1002-1009.**

1930 Jakes, P.J. and Smith, W.B., 1983. **Michigan's predicted timber yields 1981-2010.** U.S. For. Serv., Research Paper NC-243. 98pp.

"Provides a view of the timber supply potential for Michigan during the period 1981-2010." (Abstract)

1931 Johansson, P.-O. and Lofgren, K.G., 1982. **Six different results on the properties of the timber supply function.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Rapport 39. 14pp.

1932 Lofgren, K.G., 1984. **Endowments and timber supply.** European Review of Agricultural Economics 11(1):17-28.

"This paper contains an investigation of how changes in the size and composition of the initial endowments of forest land affect timber supply and the present value function." (p.17)

1933 Lohmander, P., 1984. **A note on optimal supply behavior under**

different taxation regimes. Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport 34. 19pp.

1934 Lohmander, P., 1984. **On the effect of future price risk on the optimal present extraction level.** Sveriges Lantbruksuniversitet, Inst. for Skogsekonomi, Arbetsrapport no.36. 14pp. + 1p. refs.

1935 Lyon, K.S. and Sedjo, R.A., 1984. **Long-term supply: An application of discrete time optimal control.** In: Papastavrou, A.C, Policy analysis for forestry development 2:319-335.

The model described "is used to study long-term timber supply potential using optimal control theory (SPOC)." (p.320)

1936 Rauskala, R., 1984. **Forest taxation and roundwood supply in Finland.** In: Papastavrou, A.C. Policy analysis for forestry development. 1:345-354.

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1937 Rideout, D., Miyata, E.S. and Olson, E., 1984. **A statistical profile of the timber supply base of the Tongass area in S.E. Alaska.** Colorado State Univ., Dept. of For. and Wood Sci. 131pp.

"This document is intended to provide a large scale information set concerning a variety of physical aspects affecting timber supply and harvesting in S.E. Alaska. This is not a timber inventory document...." (Preface)

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"By providing input into the timber supply planning process, computerized planning models play a vital role in advancing rational timber supply plans." (p.63)

1939 Rush, D.E., 1984. **An industrial forest owner's view of the southern pine supply.** Oklahoma State Univ., Dept. of Forestry, 1984 Nat Walker Lectureship. Unpaged.

The author gives the Weyerhaeuser Company's "view of the southern pine timber supply prospects, the levels of forest management being practiced, some of the inventory trends in the region, and the forest products market outlook affecting this resource." (p.1)

TIMBER SALES

1940 Brostrom, G., 1984. **Timber-contract trouble: Hard times in Douglas-fir country.** American Forests 90(11):24-26, 54-56.
Some Pacific Northwest firms are stuck with contracts for large amounts of public timber bid at high prices in the late 1970s.

1941 Forrester, S., 1984. **Forest Service at a loss.** Sierra 69(6):20, 22-24.

1942 Forrester, S., 1984. **National forests: Should they lose money on timber sales?** Renewable Resources Journal 2(6):11-12.

1943 Gorte, R., 1984. **The timber contract crisis.** Journal of Forestry 82:219-221.
"High-priced timber contracts purchased during the housing boom are now coming due, threatening possible bankruptcies." (p.219)

1944 Humphries, W.C., Jr., 1985. **Know your wood's value: A consultant views timber sales.** Forest Farmer 44(7):10-11.

1945 O'Toole, R., 1984. **Sales-below-cost: The issue for the 80's.** Forest Planning 5(7):15-19.
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1946 O'Toole, R., 1985. **When are sales-below-cost justified?** Forest Planning 6(2):9-11, 20-21.
The author argues that in the case of the Beaverhead and Gallatin national forests in Montana, "the only justification for continued sales-below-cost is political." (p.21)

1947 Popovich, L., 1984. **How do you account for deficit sales?** Journal of Forestry 82:595-599.
Discusses the practice of the Forest Service of selling national forest timber below cost.

1948 Rasmussen, M. and Stout, A.T., 1985. **Below-cost timber sales.** American Forests 91(1): 10-11, 62-64, 44.
Rasmussen is policy analyst, National Forest Products Assoc.; Stout is an economist with the Wilderness Society.

1949 Risbrudt, C., 1985. **Multiple-use timber sale examples prepared for testimony before the House Subcommittee on Forests,**

Family farms, and Energy, February 26, 1983. U.S. Forest Service, Policy Analysis Program. 16pp. + appendices.
Represents materials prepared for testimony before a House Subcommittee relating to the economics of federal timber sales.

1950 Texas Forest Service, 1984. **Selling timber.** Texas Forest Service Circular 250, Revised, 1984. Unpaged folder.
Popular leaflet--includes "Timber selling tips for greater profits."

1951 U.S. Congress, 98th, 1st Session, 1983. **Contracts for the sale of federal timber.** Hearings before the Subcommittee on Public Lands and Reserved Water of the Committee on Energy and Natural Resources, U.S. Senate...on S.848 and S.916. 509pp.
S.848 and S.916 are bills "to provide for the orderly termination, extension, or modification of certain contracts for the sale of federal timber...."

1952 U.S. Congress, 98th, 2d Session, 1984. **Federal Timber Contract Payment Act.** 98th Congress, 2d session, Senate Report 98-596. 23pp.

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SOCIAL SCIENCES APPLIED TO
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WOOD-USING INDUSTRIES

1954 Barr, B.M., 1983. **Regional dilemmas and international prospects in the Soviet timber industry.** In: Jensen, R.G. et al., eds. Soviet natural resources in the world economy. Chicago, University of Chicago Press. pp.411-441.

1955 Bethel, J.S., 1984. **Sometimes the word is "weed": a critical look at lesser-known species.** Unasylva 36(145):17-22.
The author belives that experimentation with secondary tropical species "on a cottage-industry basis may be highly appropriate, but where there is a need for serious production of forest-based industry materials... then betting heavily on the development of significant markets for currently unused or underused species may be a poor gamble." (p.22).

1956 Bilek, E.M. and Ellefson, P.V., 1984. **Employment in Minnesota's wood-based industry: A shift-share analysis.** University of Minnesota College of Forestry, Dept. of Forest Resources, Staff Paper Series no. 46. 46pp.

1957 Blosser, R.O., 1984. **Environmental protection information needs of the forest products industry.** In: Rosen, H.N., ed. The impact of energy and environmental concerns on chemical engineering in the forest products industry. pp.71-75.

1958 Bowyer, J.L., 1984. **Forest products in northeast Minnesota: Opportunities for industrial expansion.** University of Minnesota, Agricultural Extension Service, Northeast Minnesota Task Force. 19pp.
The author concludes that "there is a realistic possibility for expanding the forest products industry in northeast Minnesota." (p.18)

1959 Brotchie, J.F., 1983. **A review of technology and technological development in the wood and wood processing industry and its implications for developing countries.** United Nation's Industrial Development Organization, Sectoral Working Paper Series no.8. UNIDO/IS.413. 125pp.

1960 Burdin, N.A. and Sylantyev, V.A., 1983. **The USSR forest and woodworking industries.** United Nations Industrial Development Organization, Division for Industrial Studies, Sectoral Studies Branch, Sectoral Working Paper Series no.7; UNIDO/IS.406. 65pp.
"This paper...contains a description and analysis of the

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1961 Butts, P.M., 1984. **Wood using industries in Georgia: A utilization report and directory.** Macon, Georgia Forestry Commission. 103pp.

1962 Callahan, J.C., 1985. **Structural changes in the hardwood face-veneer industry.** Forest Products Journal 35(6):11-16.
Structure of the industry refers to the number and size of the firms, their location, ownership, and market practices. (pp.11-12)

1963 Economic Commission for Europe and FAO, 1984. **Survey of the wood-based panels industries.** Timber Bulletin for Europe v.37, Suppl.2. 42pp. + appendices.

1964 Ellefson, P.V., 1985. **Congressional testimony: Who presents wood-based industrial interests?** Journal of Forestry 83:300-301.

1965 FAO, 1984. **Cost estimating in sawmilling industries: Guidelines.** Rome, Food and Agriculture Organization of the United Nations. FAO Forestry Paper no. 52/1. 92pp.
"This paper deals with managerial decisions on profitability assessments in sawmills. The target group is primarily sawmill managers in medium-sized and large companies in developing countries." (p.iii)

1966 Flowers, L., Junge, D., Levi, M., and O'Grady, M., 1983. **Technical and economic review of wood energy systems for military bases.** Solar Energy Research Institute, SERI/TR-256-1477. 184pp.
"This report deals with the technology and economics of various industrial-sized wood energy systems available for generation of steam and/or electricity." (Abstract p.i)

1967 Gray, G.J., Ellefson, P.V. and Lothner, D.C., 1985. **Production and consumption of major wood products in the Lake States: Perspectives and trends.** University of Minnesota, College of Forestry, Dept. of Forest Resources, Staff Paper Series no.49. 68pp. + appendices and tables.

1968 Hansen, B.G. and Reynolds, H.W., 1984. **System 6 alternatives: An economic analysis.** U.S. For. Serv., Res. Pap. NE-551. 14pp.
"Three System 6 mill-size alternatives were designed and evaluated to determine their overall economic potential for producing standard-size hardwood blanks." (Abstract)

1969 Hoover, W.L., 1985. **Structure of the hardwood lumber industry.** Purdue University Dept. of Forestry and Natural Resources, Bulletin 180:22-23.

1970 Hornick, J.R., Zerbe, J.I. and Whitmore, J.L., 1984. **Jari's successes.** Journal of Forestry 82:663-667.
Jari is a wood production and manufacturing complex in the Amazon River Basin (Brazil). "A massive effort to produce pulp in the Amazon has yet to make money. But the lessons learned may have far-reaching consequences." (p.663)

1971 Howard, J.O., 1984. **California's forest products industry: 1982.** U.S. For. Serv., Resource Bulletin PNW-119. 79pp.

1972 Howard, J.O., 1984. **Oregon's forest products industry: 1982.** U.S. For. Serv., Resource Bulletin PNW-118. 79pp.
"This report presents the findings of a 100-percent survey of the primary forest products industry in Oregon for 1982. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling." (Abstract)

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1974 Iron Range Resources and Rehabilitation Board, 1984. **An opportunity for the development of a medium density fiberboard plant in Wood Industrial Park, Hibbing, Minnesota.** Evelyth, Minn., IRRRB. 21pp.

1975 Isacson, C.-I., 1984. **Pulp mill optimization strategies should focus on energy, labor costs.** Pulp & Paper 58(11):98-101.

1976 Japan Paper Association, 1984. **Pulp and paper statistics 1984.** Tokyo, Japan Paper Association. 25pp.
Includes brief general summary of the Japanese pulp and paper industry.

1977 Johnson, R.C., Miller, C.G., Neuworth, M.B. and Talib, A., 1983. **Chemicals from wood: The policy implications of federal subsidy.** McLean, VA, MITRE Corp., 2 vols.
"A detailed market analysis is combined with an engineering and discounted cash flow analysis to project the need for selective subsidies." "In addition, the ability of federal policy to leverage the development of a chemicals-from-wood industry is discussed in the light of the corporate decision processes by which capital is allocated." (p.iii)

1978 Juva, A., 1983. **Value analysis in the furniture industry.** Vienna, United Nations Industrial Development Organization. 72pp.
"This manual introduces the techniques of value analysis

and its application in the furniture industry." (preface) Value analysis "compares systematically functions and costs...and finds out the optimum combination of function and cost." (p.7)

1979 Koncel, J.A., 1984. **Diversification and maturity are major characteristics of midwest paper industry.** Paper Trade Journal 168(17):32-36.

"Midwest paper production can be characterized as a mature industry that has taken advantage of its natural resources--abundant wood and water and skilled labor--to become a stable manufacturing industry." (p.36)

1980 Krosnjar. D., 1985. **Sumarstvo i drvna industrija kao faktor ekonomskog razvoja u SR Hrvatskoj.** Drvna Industrija 36(1-2):9-12.

(In Croat.; Engl. summary). English title: "forestry and timber industry as a factor of economic development in the SR of Croatia."

1981 Krott, M., 1985. **Die regionale Dynamik der holzwirtschaftlichen Branchen in Osterreich: Ergebnisse einer Shift-Analyse fur den Zeitraum von 1973 bis 1981.** Holzforschung und Holzverwertung 37:25-29.

(In German; English summary). "In the 1973-1981 period there were considerable differences in the overall growth and regional prosperity of the various lines of wood-processing in Austria." (p.29)

1982 Leding, D. and Bowyer, J.L., 1984. **Japanese manufacturing and management techniques and the U.S. forest products industry.** Forest Products Journal 34(11/12):13-22.

"Interviews revealed that Japanese style management is being widely considered, experimented with, and adopted by the U.S. forest products firms." (p.13).

1983 Lewis, P.H., Jr. et al., 1982. **Housing and wood products assessment.** Final report submitted to U.S. Congress, Office of Technology Assessment by University of Wisconsin--Extension, Environmental Awareness Center. 105pp. + app.

"This report attempts to describe the many areas affecting housing needs and to delineate their resultant impact on wood types and amounts needed for future housing." (p.1)

1984 Lichty, R.W. and McMillan, D.J., 1983. **Estimating the economic impacts from an expanded waferboard industry in northeastern Minnesota.** University of Minnesota, Duluth, School of Bus. and Econ., Bureau of Bus. and Econ. Res., Working Paper no. 83-19. 40pp.

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1986 Lonnstedt, L. and Schwarzbauer, P., 1984. **The Austrian sawmill industry--some possible futures.** International Institute for Applied Systems Analysis, Working Paper WP-84-33. 23pp.

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